

STANDARDS DEVELOPMENT BRANCH MOE



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**TD** Air quality in Ontario 1986  
**887** report : appendix /  
**.A47** 20036

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## INTRODUCTION

This Appendix is intended for use in conjunction with the Annual Report Air Quality in Ontario 1986.

For each pollutant, tables provide the location of stations and supply sample distribution information including means, maxima and the number of exceedances of the Ontario criteria.

The entire continuous (hourly) network is summarized in Appendix Table A-1. This table gives station name, numerical identifier, and pollutants measured. Letter codes indicate whether data are telemetered (T,N,S or B) or chart-read (C). The column headings for pollutants are as follows:

SO <sub>2</sub>	sulphur dioxide
COH	soiling index (coefficient of haze)
CO	carbon monoxide
O <sub>3</sub>	ozone
NO <sub>2</sub>	nitrogen dioxide
NO	nitric oxide
NO <sub>x</sub>	total nitrogen oxides
THC	total hydrocarbons
RHC	reactive (non-methane) hydrocarbons
TRS	total reduced sulphur
API	air pollution index

Table A-2 gives detailed locations for the continuous monitoring network.

The particulate (daily) network is summarized in Appendix Table A-3. This table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for pollutants are as follows:

TSP total suspended particulate

Cd cadmium

Co cobalt

Cr chromium

Cu copper

Fe iron

Mn manganese

Ni nickel

Pb lead

V vanadium

NO<sub>3</sub><sup>-</sup> nitrate

SO<sub>4</sub><sup>2-</sup> sulphate

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Appendix

Table A-4 gives detailed locations for the daily monitoring network. The statistical data and the 10-year trends for the various pollutants are provided in Tables A-5 through A-40.

## ABBREVIATIONS

INS – insufficient data to compute relevant statistic.

YR – year that monitoring began.

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TABLE A-1 THE CONTINUOUS (HOURLY) NETWORK (1986)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

TABLE A-1 (Cont.)

**ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86 - HOURLY DATA**

TABLE A-1 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

STATION NAME ID YR SO2 COH CO 03 NO2 NO NOX THC RHC TRS API

TABLE A-2 LOCATIONS OF CONTINUOUS (HOURLY) STATIONS (1986)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
COLLEGE OF AGRIC TECH HURON PARK	10001	77	459200.	4793100.	17	5
WRIGHT/WATER ST WINDSOR	12007	84	327100.	4682300.	17	4
467 UNIVERSITY AV W WINDSOR	12008	69	331600.	4686700.	17	8
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	76	335800.	4687400.	17	6
COLLEGE/SOUTH ST WINDSOR	12016	75	329000.	4684100.	17	4
2885 HOWARD AV WINDSOR	12038	77	334200.	4682600.	17	1
DOUGLAS ST/E.C. ROW W WINDSOR	12039	78	333700.	4682100.	17	5
DORWIN PLAZA, DOUGALL AV WINDSOR	12047	84	332700.	4683400.	17	3
MALDEN RD (S LAURIER DR) WINDSOR	12048	84	329900.	4676600.	17	3
643 ALEXANDRINE WINDSOR	12049	85	334300.	4683200.	17	1
467 UNIVERSITY AV W BKUP WINDSOR	12108	73	328600.	4686700.	17	8
COLLEGE/PRINCE BKUP WINDSOR	12116	75	328900.	4683900.	17	4
MOE WATER PUMP STN, MIDDLE RD MERLIN	13021	77	399100.	4677600.	17	3
HWY 40 (OPP LAMBTION GS) COURTRIGHT	14016	69	379300.	4739700.	17	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	78	385400.	4759600.	17	3
PUC BLDG, HWY 21 PETROLIA	14118	77	402700.	4756400.	17	5
PUB BLDG THEDFORD	14119	83	430300.	4779800.	17	5
CENTENNIAL PK, BKUP SARNIA	14164	78	385400.	4759600.	17	3
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	70	481800.	4759500.	17	4
LONGWOODS CONSERVATION AUTHORITY	15009	83	460700.	4747700.	17	2
PUC BLDG PARKHILL	15013	83	444800.	4779300.	17	5
951 COMMISSIONERS RD E LONDON	15015	86	482800.	4756100.	17	4
801 COMMISSIONERS RD E LONDON	15016	86	482000.	4755400.	17	4
8 MOUNTSFIELD DR LONDON	15017	86	480100.	4756100.	17	4
CONCESSION RD 2 LOT A TIVERTON	18007	79	454100.	4905300.	17	4
EXPERIMENTAL FARM SIMCOE	22071	75	559700.	4744900.	17	4
CHEAPSIDE RD (3 KM S OF HWY 3) NANTICOKE	22086	77	582100.	4747200.	17	5
TOWNLINE RD/CON 13 TOWNSEND	22094	86	570000.	4749000.	17	4
PROVINCIAL PARK LONG POINT	22901	79	550200.	4713800.	17	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	79	579400.	4743400.	17	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	84	575200.	4739800.	17	4
EDNA/FREDERICK STS KITCHENER	26029	76	542700.	4811600.	17	5
NORTH/GENEVA ST ST CATHARINES	27037	76	643100.	4780500.	17	6
NIAGARA FALLS RD/ONTARIO ST THOROLD	27042	78	646900.	4773900.	17	5
HOLY T CHURCH, NORTON/PORTAGE CHIPPWA	27051	79	658000.	4769400.	17	16
185 QUEEN ST S THOROLD	27052	83	646000.	4774900.	17	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	83	655900.	4776300.	17	4
ALLENDALE AV NIAGARA FALLS	27056	83	655700.	4771800.	17	5
NORTH/GENEVA ST API BKUP ST CATHARINES	27137	79	643100.	4780500.	17	6
ALLENDALE AV BACKUP NIAGARA FALLS	27156	83	655700.	4771800.	17	5

TABLE A-2 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
EXHIBITION ST/CLARK ST GUELPH	28028	86	559400.	4822100.	17	4
HUGHSON/HUNTER HAMILTON	29001	61	591800.	4789400.	17	9
BARTON/WENTWORTH HAMILTON	29025	69	593900.	4790000.	17	4
467 BEACH BLVD HAMILTON	29102	84	598900.	4791900.	17	4
NASH RD/KENTLEY DR HAMILTON	29105	85	599800.	4787200.	17	4
VICKERS RD/EAST 18TH ST HAMILTON	29114	85	592300.	4786700.	17	3
MAIN ST/W HWY 403 HAMILTON	29118	85	588700.	4789800.	17	3
BARTON/WENTWORTH API BKUP HAMILTON	29125	70	593700.	4790000.	17	4
MISSION, 381 YONGE ST TORONTO	31049	72	630400.	4835100.	17	4
26 BREADALBANE BKUP TORONTO	31103	81	630200.	4835600.	17	15
26 BREADALBANE API TORONTO	31104	81	630200.	4835600.	17	15
SHERBOURNE/WILTON ST TORONTO	31105	77	631700.	4833800.	17	5
JUNCTION TRIANGLE, PERTH AV TORONTO	31120	81	624800.	4834400.	17	9
CN TOWER, 301 FRONT ST W TORONTO	31190	85	630100.	4833200.	17	444
LAWRENCE/KENNEDY SCARB	33003	70	638900.	4845100.	17	4
MET BRANCH, SCARB BLUFFS SCARB	33019	69	642200.	4841100.	17	1
SC CTR, 770 DON MILLS RD NORTH YORK	34002	69	633800.	4841400.	17	17
ELMCREST RD ETOBICOKE	35003	69	613600.	4833800.	17	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	68	615900.	4829300.	17	9
EVANS/ARNOLD AV ETOBICOKE	35033	67	619200.	4830200.	17	3
MOE LAB, RESOURCES RD ETOBICOKE	35050	76	617500.	4840500.	17	18
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	79	597200.	4796400.	17	17
BRONTE RD/WOBURN CRES OAKVILLE	44015	80	603100.	4805900.	17	5
RITSON RD/OLIVE AV OSHAWA	45025	79	672700.	4861800.	17	5
PUB SCHOOL, GREEN GLADE RD MISSISSAUGA	46100	77	612400.	4818700.	17	11
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	77	612200.	4824900.	17	5
M OF A, 509 VICTORIA ST E ALLISTON	47035	81	591800.	4889800.	17	4
ARMOURY BLDG PARK/PARKSIDE ST BARRIE	47042	83	503800.	4915700.	17	12
TRAILER/MTC YARD #9, HWY 47 STOUFFVILLE	48002	74	639100.	4869400.	17	5
HWY 117/PAINT LAKE RD DORSET	49010	81	662400.	5009600.	17	3
MCDONALD, RIDEAU/WURtenBURG ST OTTAWA	51001	71	447100.	5031200.	18	4
MEMORIAL PARK, BEDFORD/THIRD STS CORNWALL	56051	70	520800.	4984600.	18	4
ST FRANCES SCHOOL CORNWALL	56068	75	520500.	4984500.	18	6
ST PETERS SCHOOL CORNWALL	56071	84	464700.	4981800.	18	4
CITY HALL, 500 GEORGE ST PETERBOROUGH	59006	76	713700.	4909500.	17	18
'SEWAGE TREATMENT PLT BALMERTOWN	61014	82	448200.	5656100.	15	6
35 VAN HORNE AV DRYDEN	61027	84	611600.	5514300.	15	15
PORTAGE/CHURCH ST FORT FRANCES	62030	72	470800.	5383800.	15	4
CEMETERY COLONIZATION RD W FORT FRANCES	62032	76	469700.	5384100.	15	5
BOISE CASCADE, VICTORIA AV FORT FRANCES	62051	82	471000.	5383500.	15	5

TABLE A-2 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, HOURLY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	78	335600.	5367200.	16	22
PENINSULA BLDG MARATHON	63034	82	545300.	5396000.	16	12
435 JAMES ST S THUNDER BAY	63040	75	330200.	5360700.	16	15
CAN-CAR BLDG, MONTREAL ST THUNDER BAY	63046	76	330000.	5358400.	16	3
RECREATION CENTRE RED ROCK	63084	81	408000.	5421600.	16	7
<hr/>						
ST. MARTIN SCHOOL TERRACE BAY	63090	81	492700.	5403400.	16	8
HAWKEYE LAKE	63100	83	317500.	5393100.	16	4
MTC 615 JAMES ST S THUNDER BAY	63200	86	330300.	5360300.	16	3
MICHIPICOTEN AV LOT 38 TOWN OF MISSION	71057	78	662500.	5311000.	16	4
FARWELL PUMPHOUSE S.S.MARIE	71066	83	702400.	5156100.	16	4
<hr/>						
ROSS ROAD SMOOTH ROCK FALLS	72084	86	454600.	5458300.	16	4
OPP STN NORTH BAY	75010	79	619700.	5130500.	17	4
SKEAD SUDBURY AIRSHED	77012	52	518600.	5167800.	17	5
HANMER SUDBURY AIRSHED	77013	65	504100.	5166300.	17	5
ASH ST WATER TANK SUDBURY AIRSHED	77016	69	499400.	5148600.	17	3
<hr/>						
GOVERNMENT RD/EDWARD ST CONISTON	77028	74	511800.	5148000.	17	5
FALCONBRIDGE RD GARSON SUDBURY DISTRICT	77065	76	510900.	5155900.	17	5
KENNEDY ST NEW SUDBURY	77075	76	504400.	5152000.	17	5
LONG LAKE RD SUDBURY VILLA LOYOLA	77096	80	499200.	5138700.	17	4
MIKKOLA J HAMILTON SCHOOL WALDEN	77201	82	491500.	5140500.	17	5
<hr/>						
HIGH FALLS	77202	84	458100.	5136500.	17	33
SCIENCE N SUDBURY	77203	84	500800.	5146100.	17	10
ST LAURENT & REGIONAL RD RAYSIDE	77206	85	492700.	5159900.	17	4

TABLE A-3 THE PARTICULATE (DAILY) NETWORK (1986)  
 ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA  
 SINGLE DIGITS = CYCLE DURATION IN DAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PB	V	NO3	SO4
GODERICH	10015	76	6	.	.	.	.	.	.	.	.	.	6	6
ST MARYS	11001	78	6	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- CITY HALL	12002	69	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- RIVERSIDE	12005	78	6	6	6	6	6	6	6	6	6	6	6	6
LA SALLE	12006	83	6	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- WRIGHT	12007	84	6	.	.	.	.	6	.	.	6	.	.	.
WINDSOR- UNIVERSITY	12008	70	1	1	1	1	1	1	1	1	1	1	1	1
LITTLE RIVER	12009	71	6	.	.	.	.	.	.	6	.	6	6	6
WINDSOR- MANNING	12010	71	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- WYANDOTTE	12013	71	6	6	6	6	6	6	6	6	6	6	.	.
WINDSOR- PROSPECT	12015	71	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- COLLEGE	12016	75	3	.	.	.	.	3	.	.	3	.	.	.
WINDSOR- GEORGE	12036	77	6	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- CALIFORNIA	12037	77	6	.	.	.	.	.	.	.	.	.	.	.
WINDSOR- HOWARD	12038	77	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DOUGALL 1	12039	78	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- DOUGALL 2	12047	85	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR- ALEXANDRINE	12049	85	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	12051	86	6	6	6	6	.	6	6	6	6	6	6	6
AMHERSTBURG	12053	81	6	.	.	.	.	.	.	.	.	.	.	.
12015- BACKUP	12115	85	6	.	.	.	.	.	.	.	.	.	.	.
CHATHAM	13003	69	6	6	6	6	6	6	6	6	6	6	6	6
SARNIA- HITTON	14001	69	6	.	.	.	.	.	.	.	.	.	.	.
COURTRIGHT- HWY 40	14016	69	1	1	1	1	1	1	1	1	1	1	1	1
CORUNNA- RR1	14030	78	6	6	6	6	6	6	6	6	6	.	.	.
MOORETOWN	14031	78	6	6	6	6	6	6	6	6	6	.	.	.
SARNIA- POINT EDWARD	14054	69	6	.	.	.	.	.	.	.	.	.	.	.
CORUNNA- ST CLAIR	14059	75	6	.	.	.	.	.	.	.	.	.	.	.
SARNIA- CENTENNIAL	14064	78	6	6	6	6	6	6	6	6	6	6	6	6
SARNIA- DAVID	14151	79	6	.	.	.	.	.	.	.	.	.	.	.
LONDON- FAIR GROUNDS	15001	70	6	6	6	6	6	6	6	6	6	6	6	6
LONDON- DUNDAS	15003	70	6	.	.	.	.	.	.	6	.	6	6	6
ST THOMAS- ALEX'DRIA	15006	75	6	.	.	.	.	.	.	.	.	.	.	.
ST THOMAS- TALBOT	15007	75	6	.	.	.	.	.	.	.	.	.	.	.
ST THOMAS- EDGEWARE	15008	81	6	.	.	.	.	.	.	6	.	.	.	.
LONGWOODS	15009	83	3	3	3	3	3	3	3	3	3	3	.	.
LONDON	15014	86	6	6	.	6	6	6	6	6	6	6	.	.
LONDON	15015	86	6	6	.	6	6	6	6	6	6	6	.	.
LONDON	15016	86	6	6	.	6	6	6	6	6	6	6	.	.
LONDON	15017	86	6	6	.	6	6	6	6	6	6	6	.	.

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

**SINGLE DIGITS = CYCLE DURATION IN DAYS**

STATION NAME ID YR TSP CD CO CR CU FE MN NI PB V NO3 SO4

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PB	V	NO3	SO4
HAMILTON- BEACH	29102	85	1	1	1	1	1	1	1	1	1	1	1	1
GREENSVILLE	29111	86	3	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- GERTRUDE	29113	86	3	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- VICKERS	29114	86	3	3	3	3	3	3	3	3	3	3	3	3
HAMILTON- MAIN	29118	85	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON- MORLEY	29119	86	6	.	.	.	.	.	.	.	.	.	.	.
TORONTO- MOSLEY	31058	73	1	1	1	1	1	1	1	1	1	1	.	.
TORONTO- BERKSHIRE	31064	73	1	1	1	1	1	1	1	1	1	1	.	.
TORONTO- HAMILTON	31082	74	1	.	.	.	.	.	.	1	.	.	.	.
TORONTO- SAULTER	31084	74	1	.	.	.	.	.	.	1	.	.	.	.
TORONTO- TECUMSETH	31085	79	1	.	.	.	.	.	.	1	.	.	.	.
TORONTO- BREADALBANE	31104	81	1	1	1	1	1	1	1	1	1	1	1	1
TORONTO- JUNCTION	31120	81	3	3	3	3	3	3	3	3	3	3	3	3
TORONTO- EASTERN	31126	86	1	1	1	1	1	1	1	1	1	1	1	1
TORONTO- BATHURST	31181	83	1	.	.	.	.	.	.	1	.	.	.	.
E YORK- INDUSTRIAL	32008	85	1	1	1	1	1	1	1	1	1	1	.	.
SCARBORO- LAWRENCE	33003	70	3	3	3	3	3	3	3	3	3	3	3	3
SCARBORO- REDLAND	33019	69	6	.	.	.	.	.	.	6	.	6	6	6
N YORK- SCIENCE CTR	34002	70	3	3	3	3	3	3	3	3	3	3	3	3
ETOBICOKE- ELMCREST	35003	69	3	3	3	3	3	3	3	3	3	3	3	3
ETOBICOKE- QUEENSWAY	35005	69	3	.	.	.	.	.	.	.	3	3	3	3
ETOBICOKE- EVANS	35033	69	3	3	3	3	3	3	3	3	3	3	3	3
ETOBICOKE- LAKESHORE	35037	74	1	1	1	1	1	1	1	1	1	1	.	.
ETOBICOKE- MOL LAB	35051	80	1	.	.	.	.	.	.	.	.	.	.	.
OAKVILLE- SEWAGE PL	44005	69	1	.	.	.	.	.	.	.	.	.	.	.
BURLINGTON	44008	79	3	3	3	3	3	3	3	3	3	3	3	3
OAKVILLE	44015	80	3	3	3	3	3	3	3	3	3	3	3	3
PICKERING- FIRE HALL	45001	70	1	1	1	1	1	1	1	1	1	1	1	1
OSHAWA- LIBRARY	45011	69	3	3	3	3	3	3	3	3	3	3	.	.
OSHAWA- RITSON	45025	79	3	.	.	.	.	.	.	3	.	3	3	3
MIS'AUGA- LIBRARY	46025	70	6	6	6	6	6	6	6	6	6	6	6	6
BRAMALEA	46033	69	6	6	6	6	6	6	6	6	6	6	6	6
MIS'AUGA- 2414 DIXIE	46041	72	1	.	.	.	.	.	.	1	.	.	.	.
MIS'AUGA- 2365 DIXIE	46045	73	1	.	.	.	.	.	.	1	.	.	.	.
MIS'AUGA- 2360 DIXIE	46046	73	1	.	.	.	.	.	.	1	.	.	.	.
MIS'AUGA- QUEENSWAY	46110	78	3	.	.	.	.	.	.	3	.	3	3	3
ORILLIA	47019	77	6	.	.	.	.	.	.	.	6	6	6	6
BARRIE	47042	82	3	3	3	3	3	3	3	3	3	3	3	3
STOUFFVILLE	48002	80	3	.	.	.	.	.	.	.	3	3	3	3
PORT HOPE- SHUTER	58027	75	1	.	.	.	.	.	.	.	1	1	.	.

TABLE A-3 (Cont.)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

SINGLE DIGITS = CYCLE DURATION IN DAYS

STATION NAME	ID	YR	TSP	CD	CO	CR	CU	FE	MN	NI	PB	V	N03	S04
PORT HOPE- MARSH	58041	84	1	.	.	.	.	.	.	.	.	.	1	1
PORT HOPE- QUEEN	58042	84	1	.	.	.	.	.	.	.	.	.	1	1
PETERBORO- CITY HALL	59006	77	3	3	3	3	3	3	3	3	3	3	3	3
ATIKOKAN	62013	76	6	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- COLONIZ'N	62032	76	6	.	.	.	.	.	.	.	.	.	.	.
F FRANCES- CHURCH	62035	83	6	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- ARCHIBALD	63005	70	6	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- DAWSON	63012	70	6	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- ALGOMA	63022	69	6	6	6	6	6	6	6	6	6	6	6	6
THUNDER B- JAMES	63040	75	6	.	.	.	.	.	.	6	.	6	6	6
THUNDER B- MONTREAL	63046	78	6	.	.	.	.	.	.	.	.	.	.	.
THUNDER B- WILLIAM	63052	80	6	.	.	.	.	.	.	.	.	.	.	.
S.S.MARIE- BONNEY	71042	75	6	6	6	6	6	6	6	6	6	6	6	6
S.S.MARIE- QUEEN	71049	75	6	6	6	6	6	6	6	6	6	6	6	6
BLIND RIVER	71065	82	6	.	.	.	.	.	.	.	.	.	.	.
S.S.MARIE- FARWELL	71066	83	6	6	6	6	6	6	6	6	6	6	6	6
TIMMINS	72077	84	6	6	6	6	6	6	6	6	6	6	6	6
NORTH BAY	75010	79	6	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- ASH	77016	69	6	6	6	6	6	6	6	6	6	6	6	6
SUDBURY- LISGAR	77026	72	6	6	6	6	6	6	6	6	6	6	6	6
ESPAÑOLA- SPRUCE	77029	77	6	.	.	.	.	.	.	.	.	.	.	.
COPPER CLIFF	77070	76	6	6	6	6	6	6	.	6	6	6	6	6

TABLE A-4 LOCATIONS OF PARTICULATE (DAILY) STATIONS (1986)

ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
PUC BLDG, WEST ST GODERICH	10015	76	442500.	4843400.	17	6
309 THOMAS ST ST MARYS	11001	78	487900.	4788400.	17	30
CITY HALL, 444 WINDSOR AV WINDSOR	12002	69	332300.	4686700.	17	15
7730 RIVERSIDE DR E WINDSOR	12005	78	339500.	4689000.	17	10
BEACH LANE/HWY 18 LA SALLE	12006	83	326400.	4677800.	17	4
WRIGHT/WATER ST WINDSOR	12007	84	327100.	4682300.	17	4
467 UNIVERSITY AV W WINDSOR	12008	70	331600.	4686700.	17	8
9725 RIVERSIDE DR E LITTLE RIVER	12009	71	341300.	4688800.	17	2
SEWAGE STN, MANNING RD WINDSOR	12010	71	346000.	4687500.	17	1
FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	12013	71	335800.	4687400.	17	6
SEWAGE STN, HWY 18/PROSPECT WINDSOR	12015	71	328300.	4683300.	17	5
COLLEGE/SOUTH ST WINDSOR	12016	75	329000.	4684100.	17	4
1802 GEORGE AV WINDSOR	12036	77	336700.	4685800.	17	5
3225 CALIFORNIA ST WINDSOR	12037	77	332700.	4681600.	17	4
2885 HOWARD AV WINDSOR	12038	77	334200.	4682600.	17	1
DOUGALL/E.C. ROW W WINDSOR	12039	78	333700.	4682100.	17	5
DORWIN PLAZA, DOUGALL AV WINDSOR	12047	85	332700.	4683400.	17	3
643 ALEXANDRINE WINDSOR	12049	85	334300.	4683200.	17	1
604 CAPITOL/REMINGTON WINDSOR	12051	86	334400.	4682800.	17	1
415 FRONT ST AMHERSTBURG	12053	81	325300.	4665700.	17	14
HWY 18/PROSPECT BKUP WINDSOR	12115	85	328300.	4683300.	17	5
POST OFFICE, 10 CENTRE ST CHATHAM	13003	69	402400.	4695200.	17	12
GENERAL HOSPITAL, 220 HITTON ST SARNIA	14001	69	386000.	4758700.	17	15
HWY 40 (OPP LAMBTON GS) COURTRIGHT	14016	69	379300.	4739700.	17	4
RR1 (W OF HOUSE) CORUNNA	14030	78	394900.	4748600.	17	1
RR1 (W OF BARN) MOORETOWN	14031	78	393800.	4746100.	17	1
SARNIA YACHT CLUB, POINT EDWARD SARNIA	14054	69	384600.	4761700.	17	5
ST CLAIR BLVD/HWY 40 CORUNNA	14059	75	381300.	4748100.	17	4
CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	14064	78	385400.	4759600.	17	3
DAVID/FRONT ST SARNIA	14151	79	385200.	4758800.	17	4
WRN FAIR GROUNDS, KING/RECTORY LONDON	15001	70	481800.	4759500.	17	4
362 DUNDAS ST LONDON	15003	70	480100.	4759000.	17	17
16 ALEXANDRIA ST ST THOMAS	15006	75	485600.	4736100.	17	6
1012 TALBOT ST ST THOMAS	15007	75	485700.	4736000.	17	9
EDGEWARE RD (NNW VARTA PLT) ST THOMAS	15008	81	487600.	4737900.	17	2
LONGWOODS CONSERVATION AUTHORITY	15009	83	460700.	4747700.	17	2
POND MILLS RD/DEVERON CRES LONDON	15014	86	483600.	4756300.	17	4
951 COMMISSIONER'S RD E LONDON	15015	86	482800.	4756100.	17	4
801 COMMISSIONER'S RD E LONDON	15016	86	482000.	4755400.	17	4
8 MOUNTSFIELD DR LONDON	15017	86	480100.	4756100.	17	4

TABLE A-4 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
ST ANTHONY'S SS, HWY 2 BEACHVILLE	17006	74	513200.	4769600.	17	6
HWY 2 RR 2 (J SPRIEL PROP) INGERSOLL	17020	81	511800.	4767500.	17	2
OXFORD CTY RD 6 (HESSTON FARM) EMBRO	17021	83	510200.	4772200.	17	1
182 WATER ST WINGHAM	17022	85	474700.	4856100.	17	1
ST ANTHONY'S SS HWY 2 BEACHVILLE	17206	84	513200.	4769600.	17	5
ST ANTHONY'S SS HWY 2 BEACHVILLE	17306	84	513200.	4769600.	17	5
369 LEOPOLD ST WINGHAM	18014	85	474700.	4849600.	17	1
TROWBRIDGE MEAFORD	18015	86	532500.	4939300.	17	1
JARVIS COMMUNITY CENTRE, JAMES ST JARVIS	22087	80	572400.	4748100.	17	4
ST GEORGE/ALMA PORT DOVER	22090	83	564300.	4737700.	17	5
RAINHAM RD/SANDUSK RD JARVIS	22092	85	579100.	4740700.	17	4
WALPOLE S PS, SANDUSK RD NANTICOKE	22904	79	579400.	4743400.	17	4
RAINHAM RD (NEAR STELCO GATE) NANTICOKE	22907	84	575200.	4739800.	17	4
NANTICOKE RD/WALPOLE CON 2 NANTICOKE	22961	79	575800.	4741200.	17	3
N 2 KM NANTICOKE GS NANTICOKE	22964	84	574500.	4742000.	17	4
HWY 6/NORFOLK CON 2 JARVIS	22965	84	569800.	4741300.	17	2
EDNA/FREDERICK STS KITCHENER	26029	76	542700.	4811600.	17	5
NORTH/GENEVA ST ST CATHARINES	27037	76	643100.	4780500.	17	6
337 ALBERTA/DEVON ST WELLAND	27045	78	643300.	4758700.	17	1
DAVIS/FRAZER PORT COLBORNE	27047	79	643500.	4749700.	17	3
4057 VICTORIA AV NIAGARA FALLS	27050	79	656700.	4775200.	17	4
HOLY T CHURCH, NORTON/PORTAGE CHIPPWA	27051	79	658000.	4769400.	17	16
185 QUEEN ST S THOROLD	27052	82	646000.	4774900.	17	1
STP GROUNDS, STANLEY AV NIAGARA FALLS	27055	82	655900.	4776300.	17	4
ALLENDALE AV NIAGARA FALLS	27056	83	655700.	4771800.	17	5
188 EASTCHESTER AV ST CATHARINES	27059	85	645300.	4780600.	17	1
PETRIE ST/DUNKIRK RD ST CATHARINES	27060	85	465100.	4780900.	17	3
HANLON EXPT/SPEED RIVER GUELPH	28027	81	559400.	4819000.	17	6
EXHIBITION/CLARK ST GUELPH	28028	86	559400.	4822100.	17	4
HUGHSON/HUNTER HAMILTON	29001	69	591800.	4789400.	17	9
KENILWORTH HAMILTON	29009	69	596700.	4788400.	17	6
BURLINGTON/LEEDS HAMILTON	29011	61	595400.	4790500.	17	5
BURLINGTON/WELLINGTON HAMILTON	29012	66	593100.	4791400.	17	7
CHATHAM/FRID HAMILTON	29017	61	589800.	4789600.	17	6
BARTON/WENTWORTH HAMILTON	29025	69	593900.	4790000.	17	4
450 HUGHSON ST N HAMILTON	29067	73	592500.	4791300.	17	5
SPENCER VALLEY PS GREENSVILLE	29077	74	581200.	4793200.	17	6
405 CUMBERLAND AV HAMILTON	29087	79	594600.	4788200.	17	4
BARTON/NASH RD HAMILTON	29089	80	600000.	4787900.	17	6
BAY/MAIN ST HAMILTON	29098	83	591300.	4789600.	17	23

TABLE A-4 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
467 BEACH BLVD HAMILTON	29102	85	598900.	4791900.	17	4
OFIELD RD/HWY 5 GREENSVILLE	29111	86	582700.	4793500.	17	1
GERTRUDE/DEPEW HAMILTON	29113	86	595900.	4789900.	17	4
VICKERS RD/EAST 18TH ST HAMILTON	29114	86	592300.	4786700.	17	3
MAIN ST/W HWY 403 HAMILTON	29118	85	588700.	4789800.	17	3
MORLEY ST/PARKDALE AV HAMILTON	29119	86	598700.	4789100.	17	4
MOSLEY/LESLIE STS TORONTO	31058	73	634600.	4835300.	17	5
17 BERKSHIRE AV TORONTO	31064	73	634500.	4835300.	17	1
WORKS DEPT, 138 HAMILTON AV TORONTO	31082	74	632800.	4835500.	17	5
MAYDWELL MFG, 65 SAULTER ST TORONTO	31084	74	633300.	4835100.	17	15
TECUMSETH/NIAGARA ST TORONTO	31085	79	628700.	4833000.	17	6
26 BREADALBANE API TORONTO	31104	81	630200.	4835600.	17	15
JUNCTION TRIANGLE, PERTH AV TORONTO	31120	81	624800.	4834400.	17	9
969 EASTERN AV TORONTO	31126	86	635200.	4835500.	17	11
60 BATHURST ST TORONTO	31181	83	628800.	4833200.	17	6
30 INDUSTRIAL ST (K M SMITH) EAST YORK	32008	85	632300.	4840500.	17	6
LAWRENCE/KENNEDY SCARB	33003	70	638900.	4845100.	17	4
MET BRANCH, SCARB BLUFFS SCARB	33019	69	642200.	4841100.	17	1
CTR 770 DON MILLS RD NORTH YORK	34002	70	633800.	4841400.	17	17
ELMCREST RD ETOBICOKE	35003	69	613600.	4833800.	17	4
QUEENSWAY HOSPITAL ETOBICOKE	35005	69	615900.	4829300.	17	9
EVANS/ARNOLD AV ETOBICOKE	35033	69	619200.	4830200.	17	3
3050 LAKESHORE BLVD W ETOBICOKE	35037	74	620100.	4828500.	17	3
RADIATION LABS, RESOURCES RD TORONTO	35051	80	617200.	4840300.	17	11
2487 LAKESHORE E/BIRKBANK RDS OAKVILLE	44005	69	610600.	4815000.	17	2
HWY 2/NORTH SHORE BLVD E BURLINGTON	44008	79	597200.	4796400.	17	17
BRONTE RD/WOBURN CRES OAKVILLE	44015	80	603100.	4805900.	17	5
PICKERING FIRE HALL PICKERING	45001	70	655100.	4854800.	17	1
PUBLIC LIBRARY OSHAWA	45011	62	671400.	4862300.	17	7
RITSON RD/OLIVE AV OSHAWA	45025	79	672700.	4861800.	17	5
MISSISSAUGA PUBLIC LIBRARY MISSISSAUGA	46025	70	611500.	4825700.	17	9
BRAMALEA FIRE HALL BRAMALEA	46033	69	605300.	4839800.	17	3
2414 DIXIE RD MISSISSAUGA	46041	72	614700.	4828700.	17	5
2365 DIXIE RD MISSISSAUGA	46045	73	614800.	4828800.	17	5
2360 DIXIE RD MISSISSAUGA	46046	73	614700.	4828600.	17	12
QUEENSWAY W/HURONTARIO ST MISSISSAUGA	46110	78	612200.	4824900.	17	5
POST OFFICE, 17-25 PETER ST S ORILLIA	47019	77	625500.	4940600.	17	10
ARMOURY BLDG PARK/PARKSIDE ST BARRIE	47042	82	603800.	4915700.	17	12
TRAILER/MTC YARD #9, HWY47 STOUFFVILLE	48002	80	639100.	4869400.	17	5
51 SHUTER ST PORT HOPE	58027	75	717700.	4869400.	17	4

TABLE A-4 (Cont.)

## ONTARIO AIR MONITORING NETWORK AS OF 31-DEC-86, DAILY DATA

LOCATION	ID	YR	UTM-X	UTM-Y	ZONE	ELEV (M)
FILT PLT, MARSH ST PORT HOPE	58041	84	716700.	4868800.	17	1
CAN TIRE, QUEEN ST PORT HOPE	58042	84	717100.	4869500.	17	1
CITY HALL, 500 GEORGE ST PETERBOROUGH	59006	77	713700.	4909500.	17	18
WEATHER STN ATIKOKAN	62013	76	603000.	5400800.	15	1
CEMETERY COLONIZATION RD W FORT FRANCES	62032	76	469700.	5384100.	15	5
LEGION BLDG, 250 CHURCH ST FORT FRANCES	62035	83	470700.	5383900.	15	9
HOSP ARCHIBALD/ARTHUR STS THUNDER BAY	63005	70	333500.	5360800.	16	29
DAWSON CT ALGOMA ST N THUNDER BAY	63012	70	337200.	5368600.	16	9
HOSPITAL, 35 ALGOMA ST N THUNDER BAY	63022	69	335600.	5367200.	16	22
435 JAMES ST S THUNDER BAY	63040	75	330200.	5360700.	16	15
CAN-CAR BLDG, MONTREAL ST THUNDER BAY	63046	78	330000.	5358400.	16	3
TRNSIT MAINT BD, WILLIAM RD THUNDER BAY	63052	80	334500.	5364700.	16	9
PUMPHOUSE, BONNEY ST S.S.MARIE	71042	75	701100.	5155500.	16	1
LAND RDG OFFICE, QUEEN ST S.S.MARIE	71049	75	704700.	5154300.	16	6
ST JOSEPHS HOSPITAL BLIND RIVER	71065	82	348800.	5116000.	17	12
FARWELL PUMPHOUSE S.S.MARIE	71066	83	702400.	5156100.	16	4
MINISTRY OF HEALTH BLDG TIMMINS	72077	84	475500.	5368500.	17	5
OPP STN NORTH BAY	75010	79	619700.	5130500.	17	4
ASH ST WATER TANK SUDBURY	77016	69	499400.	5148600.	17	3
19 LISGAR ST SUDBURY	77026	72	500600.	5148500.	17	14
POST OFFICE, SPRUCE/BARBER ST ESPANOLA	77029	77	440500.	5123500.	17	6
PUMP HOUSE, NICKEL ST COPPER CLIFF	77070	76	495000.	5146200.	17	5

TABLE A-5 SULPHUR DIOXIDE (SO<sub>2</sub>) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - SULPHUR DIOXIDE		UNIT = PARTS/MILLION							RUN DATE				
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES	50	70	90	99	ARITHMETIC MEAN	MAXIMUM 1HR	MAXIMUM 24HR	NO. OF TIMES ABOVE CRITERIA		
													1HR	24HR	1YR
12007	WRIGHT/WATER ST WINDSOR	352	.000	.000	.002	.008	.019	.060	.010	.013	.04	0	0	0	
12008	467 UNIVERSITY AV W WINDSOR	353	.000	.000	.000	.006	.018	.044	.008	.020	.04	0	0	0	
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	361	.000	.000	.000	.002	.009	.028	.005	.013	.03	0	0	0	
12016	COLLEGE/SOUTH ST WINDSOR	356	.000	.000	.000	.002	.014	.044	.006	.014	.04	0	0	0	
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	347	.000	.000	.002	.006	.012	.030	.008	.010	.03	0	0	0	
12048	MALDEN RD (S LAURIER DR) WINDSOR	328	.000	.000	.000	.005	.010	.030	.006	.018	.03	0	0	0	
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	349	.000	.000	.000	.000	.008	.049	.004	.022	.03	0	0	0	
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	354	.000	.000	.000	.001	.017	.104	.008	.028	.08	2	0	0	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	345	.000	.000	.000	.000	.006	.019	.003	.008	.02	0	0	0	
15015	951 COMMISSIONERS RD E LONDON	168	.000	.000	.000	.000	.005	.012	.002	.004	.01	0	0	INS	
15016	801 COMMISSIONERS RD E LONDON	154	.000	.000	.000	.000	.006	.021	.003	.008	.03	0	0	INS	
15017	8 MOUNTSFIELD DR LONDON	220	.000	.000	.000	.000	.000	.010	.001	.003	.02	0	0	INS	
18007	CONCESSION RD 2 LOT A TIVERTON	361	.000	.000	.000	.000	.001	.014	.001	.004	.02	0	0	0	
22071	EXPERIMENTAL FARM SIMCOE	340	.000	.000	.000	.000	.006	.023	.003	.012	.02	0	0	0	
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	339	.000	.000	.000	.000	.004	.032	.002	.033	.03	2	0	0	

TABLE A-5 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - SULPHUR DIOXIDE		UNIT = PARTS/MILLION							RUN DATE				
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA		
													1HR	24HR	1YR
22094	TOWNLINE RD/CON 13 TOWNSEND	279	.000	.000	.000	.008	.008	.039	.004	.026	.06	1	0	0	
22901	PROVINCIAL PARK LONG POINT	326	.000	.000	.000	.000	.004	.020	.002	.007	.03	0	0	0	
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	313	.000	.000	.000	.000	.004	.024	.002	.016	.03	0	0	0	
26029	EDNA/FREDERICK STS KITCHENER	278	.000	.000	.000	.000	.007	.023	.003	.017	.03	0	0	0	
27037	NORTH/GENEVA ST ST CATHARINES	267	.000	.000	.000	.002	.009	.029	.005	.013	.04	0	0	0	
27042	NIAGARA FALLS RD/ONTARIO ST THOROLD	361	.000	.000	.000	.000	.000	.098	.005	1.29	.21	16	1	0	
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPIPPAWA	364	.000	.000	.000	.004	.010	.029	.005	.010	.04	0	0	0	
27052	185 QUEEN ST S THOROLD	350	.000	.000	.000	.003	.029	.139	.012	.032	.16	16	2	0	
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	359	.000	.000	.000	.005	.017	.053	.008	.023	.07	0	0	0	
27056	ALLENDALE AV NIAGARA FALLS	353	.000	.000	.000	.000	.007	.025	.003	.006	.03	0	0	0	
27137	NORTH/GENEVA ST API BKUP ST CATHARINES	263	.000	.000	.000	.003	.010	.029	.005	.013	.03	0	0	0	
27156	ALLENDALE AV API BKUP NIAGARA FALLS	313	.000	.000	.000	.000	.008	.026	.004	.010	.03	0	0	0	
28028	EXHIBITION ST/CLARK ST GUELPH	333	.000	.000	.000	.000	.007	.019	.003	.006	.02	0	0	0	
29025	BARTON/WENTWORTH HAMILTON	354	.000	.000	.000	.004	.020	.059	.008	.014	.05	0	0	0	
29102	467 BEACH BLVD HAMILTON	341	.000	.000	.000	.006	.026	.062	.010	.012	.07	0	0	0	

TABLE A-5 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - SULPHUR DIOXIDE		UNIT = PARTS/MILLION								RUN DATE			
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA		
													1HR	24HR	1YR
29105	NASH RD/KENTLEY DR HAMILTON	338	.000	.000	.000	.005	.010	.033	.006	.017	.005	0	0	0	
29114	VICKERS RD/EAST 18TH ST HAMILTON	340	.000	.000	.000	.006	.017	.048	.008	.011	.005	0	0	0	
29118	MAIN ST W/HWY 403 HAMILTON	364	.000	.000	.000	.005	.012	.041	.007	.024	.004	0	0	0	
29125	BARTON/WENTWORTH API BKUP HAMILTON	352	.000	.000	.000	.006	.020	.056	.008	.014	.005	0	0	0	
31103	26 BREADALBANE BKUP TORONTO	361	.000	.000	.000	.000	.008	.036	.004	.014	.003	0	0	0	
31104	26 BREADALBANE TORONTO	364	.000	.000	.000	.000	.008	.036	.004	.014	.004	0	0	0	
31105	SHERBOURNE/WILTON STS TORONTO	76	.000	.000	.000	.004	.013	.056	.007	.012	.004	0	0	INS	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	347	.000	.000	.000	.000	.008	.030	.004	.013	.004	0	0	0	
31190	CN TOWER, 301 FRONT ST W TORONTO	242	.000	.000	.000	.000	.006	.014	.003	.011	.001	0	0	INS	
33003	LAWRENCE/KENNEDY SCARBORO	346	.000	.000	.000	.000	.008	.029	.003	.013	.003	0	0	0	
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	294	.000	.000	.000	.000	.006	.017	.002	.005	.002	0	0	0	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	237	.000	.000	.000	.003	.008	.025	.005	.009	.004	0	0	INS	
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	365	.000	.000	.000	.003	.009	.024	.005	.015	.003	0	0	0	
35005	QUEENSWAY HOSPITAL ETOBIKOKE	282	.000	.000	.000	.002	.009	.032	.005	.024	.005	0	0	0	
35033	EVANS/ARNOLD AV ETOBIKOKE	347	.000	.000	.000	.000	.008	.024	.004	.010	.003	0	0	0	

TABLE A-5 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - SULPHUR DIOXIDE						UNIT = PARTS/MILLION			RUN DATE				
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES	50	70	90	99	ARITH- METIC MEAN	MAXIMUM	1Hr	24HR	NO. OF TIMES ABOVE CRITERIA	
												1Hr	24HR	1YR	
35050	125 RESOURCES RD (MOE LAB) ETOBICOKE	234	.000	.000	.000	.000	.005	.016	.002	.002	.08	.02	0	0	INS
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	352	.000	.000	.000	.000	.008	.022	.004	.004	.08	.03	0	0	0
44015	BRONTE RD/MOBURN CRES OAKVILLE	356	.000	.000	.000	.000	.012	.056	.005	.005	.18	.09	0	0	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	353	.000	.000	.000	.000	.006	.023	.003	.003	.10	.04	0	0	0
46100	PUB SCHOOL, GREEN GLADE RD MISSISSAUGA	350	.000	.000	.000	.003	.008	.025	.005	.005	.07	.03	0	0	0
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	358	.000	.000	.001	.005	.010	.026	.007	.007	.11	.03	0	0	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	363	.000	.000	.000	.000	.005	.017	.002	.002	.06	.02	0	0	0
48002	HWY47/E OF HWY48 STOUFFVILLE	350	.000	.000	.000	.000	.005	.015	.002	.002	.06	.03	0	0	0
49010	HWY 117/PAINT LAKE RD DORSET	359	.000	.000	.000	.000	.000	.010	.001	.001	.06	.01	0	0	0
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	356	.000	.000	.000	.000	.001	.020	.002	.002	.09	.03	0	0	0
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	340	.000	.000	.000	.005	.021	.059	.008	.008	.19	.05	0	0	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	349	.000	.000	.000	.000	.006	.010	.002	.002	.03	.01	0	0	0
61014	SEWAGE TREATMENT PLT BALMERTOWN	355	.000	.000	.000	.000	.000	.237	.008	.008	.79	.16	79	2	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	355	.000	.000	.000	.000	.000	.000	.000	.000	.01	.00	0	0	0
63040	435 JAMES ST S THUNDER BAY	303	.000	.000	.000	.000	.000	.005	.00	.00	.15	.02	0	0	0

TABLE A-5 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUN 26, 1987

YEAR - 1986		POLLUTANT - SULPHUR DIOXIDE									UNIT = PARTS/MILLION			
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES 50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR	24HR	1YR
63100	HAWKEYE LAKE	93	.000	.000	.000	.000	.000	.000	.000	.01	0.00	0	0	INS
63200	MTC 615 JAMES ST S THUNDER BAY	55	.000	.000	.000	.000	.000	.005	.000	.01	0.00	0	0	INS
71057	38 MICHIPICOTEN AV MICHIPICOTEN HARBOUR	228	.000	.000	.000	.000	.005	.135	.005	.70	0.08	14	0	INS
71066	FARWELL PUMPHOUSE SAULT STE MARIE	350	.000	.000	.000	.005	.013	.044	.007	.12	0.04	0	0	0
75010	OPP STN NORTH BAY	344	.000	.000	.000	.000	.004	.020	.002	.08	0.02	0	0	0
77012	SKEAD	352	.000	.000	.000	.000	.016	.159	.009	.56	0.12	32	1	0
77013	HANNER	351	.000	.000	.000	.000	.007	.083	.005	.67	0.06	6	0	0
77016	WATER TANK, ASH ST SUDBURY	359	.000	.000	.000	.000	.018	.106	.008	.55	0.06	7	0	0
77028	GOVERNMENT RD/EDWARD ST CONISTON	342	.000	.000	.000	.000	.010	.106	.006	.28	0.06	4	0	0
77065	FALCONBRIDGE RD GARSON	363	.000	.000	.000	.000	.014	.133	.008	.65	0.09	18	0	0
77075	KENNEDY ST NEW SUDBURY	362	.000	.000	.000	.000	.019	.135	.009	.49	0.07	19	0	0
77096	LONG LAKE RD (VILLA LOYOLA) SUDBURY	365	.000	.000	.000	.000	.013	.127	.007	.58	0.08	18	0	0
77201	MIKKOLA (J HAMILTON SCHOOL) WALDEN	353	.000	.000	.000	.000	.009	.159	.007	.74	0.13	29	3	0
77202	HIGH FALLS	108	.000	.000	.000	.000	.014	.065	.006	.37	0.07	4	0	INS
77203	SCIENCE NORTH SUDBURY	352	.000	.000	.000	.000	.011	.100	.007	.46	0.08	13	0	0
77206	ST LAURENT/REGIONAL RD RAYSIDE	336	.000	.000	.000	.000	.006	.073	.004	.56	0.10	10	0	0

TABLE A-6 10-YEAR TREND FOR SO<sub>2</sub>

## Annual Mean (ppm)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
BURLINGTON	.011	.011	.008	.005	.007	.005	.005	.005	.004	.004
CORNWALL	.017	.017	.013	.012	.010	.010	.008	.009	.009	.008
ETOBICOKE	.011	.010	.010	.008	.008	.006	.006	.007	.007	.005
HAMILTON	.023	.016	.017	.013	.010	.014	.014	.015	.009	.008
KITCHENER	.007	.005	.006	.005	.003	.003	.002	.003	.002	.003
LONDON	.010	.009	.007	.005	.009	.004	.003	.004	.002	.003
NIAGARA FALLS	.008	.008	.011	.007	.004	.003	.003	.004	.003	.003
NORTH BAY	.006	.004	.003	.004	.002	.003	.002	.003	.002	.002
NORTH YORK	.009	.008	.009	.010	.010	.012	.006	.009	.008	.005
OAKVILLE	.009	.009	.009	.007	.005	.007	.005	.007	.006	.005
PETERBORO	.004	.004	.003	.004	.003	.003	.002	.003	.002	.002
SARNIA	.023	.016	.017	.013	.014	.012	.010	.009	.011	.008
SCARBORO	.012	.006	.005	.008	.007	.004	.003	.004	.003	.003
SIMCOE	.011	.007	.009	.007	.004	.004	.003	.004	.005	.003
ST CATHARINES	.007	.007	.007	.004	.007	.005	.005	.005	.006	.005
SUDBURY	.015	.012	.012	.016	.010	.010	.009	.010	.010	.008
TORONTO	.014	.011	.008	.007	.008	.006	.004	.006	.004	.004
WINDSOR	.022	.018	.013	.011	.012	.009	.008	.007	.007	.008

TABLE A-7 SOILING INDEX (COH) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH														
YEAR - 1986		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE			
STATION NUMBER	LOCATION	NO. OF DAYS		PERCENTILES	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	MAXIMUM 24HR	NO. OF TIMES ABOVE CRITERIA
12008	467 UNIVERSITY AV W WINDSOR	360	0.00	0.19	0.30	0.46	0.78	1.71	0.43	3.3	1.7	7	0	
12016	COLLEGE/SOUTH ST WINDSOR	358	0.00	0.19	0.29	0.46	0.79	1.64	0.42	4.0	1.3	7	0	
12038	2885 HOWARD AV WINDSOR	295	0.05	0.23	0.38	0.58	0.97	2.00	0.52	4.4	1.5	10	1	
12039	DOUGLAS ST/E.C. ROW W WINDSOR	240	0.07	0.25	0.43	0.64	1.14	2.26	0.59	4.4	2.4	25	INS	
12049	643 ALEXANDRINE WINDSOR	277	0.02	0.18	0.30	0.48	0.87	1.90	0.45	4.4	2.0	11	0	
12108	467 UNIV AV W BKUP WINDSOR	362	0.00	0.21	0.32	0.49	0.82	1.81	0.45	3.5	1.8	8	0	
12116	COLLEGE/PRINCE BKUP WINDSOR	362	0.06	0.20	0.30	0.46	0.79	1.67	0.44	4.0	1.4	9	0	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	362	0.00	0.12	0.22	0.35	0.60	1.14	0.31	3.2	1.7	2	0	
14164	CENTENNIAL PK BKUP SARNIA	362	0.00	0.10	0.19	0.30	0.53	0.98	0.28	3.2	1.6	1	0	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	351	0.00	0.11	0.21	0.33	0.57	1.17	0.30	2.9	1.3	2	0	
15009	LONGWOODS CONSERVATION AUTHORITY	308	0.00	0.04	0.10	0.20	0.40	0.72	0.20	1.2	0.8	0	0	
22071	EXPERIMENTAL FARM SIMCOE	74	0.00	0.00	0.15	0.23	0.37	0.70	0.20	1.3	0.7	0	INS	
27037	NORTH/GENEVA ST ST CATHARINES	262	0.00	0.06	0.17	0.26	0.47	0.90	0.24	2.1	0.8	0	0	
27052	185 QUEEN ST S THOROLD	353	0.03	0.12	0.19	0.30	0.51	1.06	0.30	3.2	1.0	0	0	
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	264	0.04	0.14	0.23	0.36	0.61	1.15	0.34	2.2	1.3	1	0	

TABLE A-7 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE			
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	MAXIMUM 24HR	NO. OF TIMES ABOVE CRITERIA	
													24HR	1YR
27056	ALLEDALE AV NIAGARA FALLS	351	0.00	0.00	0.12	0.21	0.38	0.78	0.28	2.9	0.9	0	0	
27137	NORTH/GENEVA ST API BKUP ST CATHARINES	262	0.00	0.11	0.18	0.27	0.47	0.92	0.26	3.2	0.9	0	0	
27156	ALLEDALE AV API BKUP NIAGARA FALLS	352	0.00	0.00	0.13	0.22	0.39	0.82	0.20	2.1	1.1	1	0	
29001	HUGHSON/HUNTER HAMILTON	304	0.11	0.23	0.36	0.52	0.91	1.69	0.50	4.9	1.7	10	0	
29025	BARTON/WENTWORTH HAMILTON	353	0.02	0.27	0.43	0.66	1.08	1.89	0.57	4.2	1.6	27	1	
29102	467 BEACH BLVD HAMILTON	356	0.00	0.00	0.19	0.37	0.69	1.28	0.31	2.4	1.3	1	0	
29105	NASH RD/KENTLEY DR HAMILTON	264	0.01	0.14	0.28	0.45	0.70	1.29	0.38	3.8	1.1	1	0	
29114	VICKERS RD/EAST 18TH ST HAMILTON	361	0.03	0.12	0.20	0.33	0.63	1.34	0.33	2.6	1.2	3	0	
29118	MAIN ST W/HNY 403 HAMILTON	348	0.03	0.14	0.25	0.41	0.85	1.67	0.41	2.8	1.6	9	0	
29125	BARTON/WENTWORTH API BKUP HAMILTON	356	0.01	0.23	0.37	0.57	0.97	1.80	0.51	3.3	1.6	21	1	
31049	MISSION, 381 YONGE ST TORONTO	338	0.21	0.38	0.56	0.78	1.19	1.92	0.69	3.8	1.6	40	1	
31103	26 BREADALBANE BKUP TORONTO	363	0.00	0.14	0.23	0.36	0.63	1.20	0.33	3.2	1.0	0	0	
31104	26 BREADALBANE TORONTO	363	0.02	0.18	0.28	0.41	0.69	1.33	0.39	3.5	1.1	1	0	
31105	SHERBOURNE/WILTON STS TORONTO	83	0.05	0.25	0.38	0.55	0.95	1.65	0.50	2.5	1.1	1	INS	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362	0.00	0.16	0.26	0.39	0.68	1.40	0.37	3.7	1.2	5	0	

TABLE A-7 (Cont.)

YEAR - 1986		POLLUTANT - SOILING INDEX		UNIT = COHS/1000 FT							RUN DATE				
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA	24HR	1YR
31190	CN TOWER, 301 FRONT ST W TORONTO	294	0.00 0.01 0.05 0.10 0.21 0.50	0.12	1.9	0.6	0	0							
33003	LAWRENCE/KENNEDY SCARBORO	341	0.00 0.14 0.24 0.37 0.67 1.34	0.34	3.9	1.1	1	0							
35033	EVANS/ARNOLD AV ETOBIKOKE	301	0.11 0.26 0.40 0.59 0.98 1.75	0.54	3.6	1.5	12	1							
44015	BRONTE RD/WOBURN CRES OAKVILLE	292	0.00 0.06 0.18 0.33 0.64 1.29	0.30	2.9	1.2	2	0							
45025	PS, RITSON RD/OLIVE AV OSHAWA	343	0.00 0.10 0.22 0.37 0.66 1.37	0.33	2.8	1.3	3	0							
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	328	0.00 0.00 0.06 0.17 0.33 0.73	0.15	2.1	0.6	0	0							
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	359	0.00 0.00 0.00 0.00 0.17 0.44	0.06	1.4	0.4	0	0							
63040	435 JAMES ST S THUNDER BAY	180	0.00 0.04 0.10 0.22 0.49 1.18	0.23	2.7	1.0	0	INS							
71066	FARWELL PUMPHOUSE SAULT STE MARIE	348	0.00 0.05 0.17 0.35 0.84 2.26	0.36	4.2	1.7	9	0							
77016	WATER TANK, ASH ST SUDBURY	361	0.00 0.00 0.06 0.18 0.36 0.88	0.16	3.1	0.9	0	0							
77028	GOVERNMENT RD/EDWARD ST CONISTON	358	0.00 0.00 0.00 0.13 0.28 0.80	0.12	2.3	0.5	0	0							
77075	KENNEDY ST NEW SUDBURY	361	0.00 0.00 0.04 0.17 0.32 0.89	0.15	2.9	0.6	0	0							
77203	SCIENCE NORTH SUDBURY	338	0.00 0.01 0.09 0.20 0.42 1.11	0.20	4.3	1.0	0	0							

TABLE A-8 10-YEAR TREND FOR COH

## Annual Mean (COH/1000 ft.)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	.19	.18	.20	.18	.10	.16	.18	.16	.09	.06
ETOBICOKE	.54	.44	.58	.42	.31	.49	.37	.52	.47	.54
HAMILTON	.54	.56	.63	.54	.58	.57	.44	.55	.52	.57
LONDON	.27	.32	.32	.33	.30	.32	.31	.29	.30	.30
NORTH YORK	.54	.51	.55	.48	.54	.60	.57	.62	.56	-
OTTAWA	.20	.16	.23	.14	.18	.18	.18	.19	.14	.15
SARNIA	.26	.35	.30	.27	.28	.27	.27	.29	.25	.31
SCARBORO	.33	.41	.37	.35	.40	.37	.32	.36	.34	.34
SUDBURY	.10	.13	.12	.13	.12	.12	.12	.15	.13	.16
TORONTO	.40	.40	.39	.34	.45	.46	.41	.47	.36	.39
WINDSOR	.55	.51	.47	.42	.41	.43	.47	.46	.41	.43

TABLE A-9 TOTAL REDUCED SULPHUR (TRS) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1986		POLLUTANT - TOTAL REDUCED SULPHUR					UNIT = PARTS/BILLION				RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES 50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO OF TIMES ABOVE CRITERIA 1HR
12007	WRIGHT/WATER ST WINDSOR	364	0.0	0.0	0.0	0.2	4.5	30.4	2.0	151	30	108
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	346	0.0	0.0	0.0	0.0	0.8	3.9	0.3	13	6	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	358	0.0	0.0	0.0	0.0	0.0	4.0	0.2	19	4	0
18007	CONCESSION RD 2 LOT A TIVERTON	354	0.0	0.0	0.0	0.0	0.0	2.0	0.1	11	2	0
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	318	0.0	0.0	0.0	0.0	0.8	3.3	0.4	14	4	0
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	302	0.0	0.0	0.0	0.0	0.0	1.0	0.1	13	2	0
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	327	0.0	0.0	0.0	0.1	1.6	9.2	0.8	51	11	11
27051	HOLY T CHURCH, NORTON/PORTAGE CHIPPWA	320	0.0	0.0	0.0	2.0	5.6	17.1	2.2	47	13	15
27052	185 QUEEN ST S THOROLD	342	0.0	0.0	0.0	0.0	3.6	31.7	1.9	163	33	109
27055	STP GROUNDS, STANLEY AV NIAGARA FALLS	339	0.0	0.0	0.0	0.0	3.4	13.0	1.2	44	12	10
29025	BARTON/WENTWORTH HAMILTON	359	0.0	0.0	0.2	0.8	3.1	10.8	1.4	64	11	5
29102	467 BEACH BLVD HAMILTON	356	0.0	0.0	0.0	0.8	3.4	12.2	1.3	42	8	4
44015	BRONTE RD/MOBURN CRES OAKVILLE	355	0.0	0.1	1.2	2.4	5.4	10.8	2.4	93	12	6
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	364	0.0	0.0	0.4	1.3	3.8	37.7	2.6	188	48	123
56068	SCHOOL, 435 SECOND ST W CORNWALL	301	0.0	0.0	0.0	1.0	4.2	16.6	1.7	83	16	23

TABLE A-9 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												
YEAR - 1986	POLLUTANT - TOTAL REDUCED SULPHUR						UNIT = PARTS/BILLION			RUN DATE		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	NO OF TIMES ABOVE CRITERIA 1HR
<hr/>												
56071	ST PETERS SCHOOL CORNWALL	355	0.0	0.0	0.0	3.2	17.4	109.9	7.3	240	84	607
61027	35 VAN HORNE AV DRYDEN	352	0.0	0.0	0.0	0.0	2.7	15.0	1.0	77	8	12
62030	PORTAGE/CHURCH ST FORT FRANCES	126	0.0	0.0	0.3	4.7	21.7	70.0	7.2	226	35	217
62032	CEMETERY, COLONIZATION RD W FORT FRANCES	325	0.0	0.0	0.0	0.0	2.8	17.8	1.2	133	11	37
62051	VICTORIA AV (BOISE CASCADE) FORT FRANCES	62	0.0	0.0	0.0	6.0	3.0	15.1	1.1	54	14	7
63034	PENINSULA BLDG MARATHON	319	0.0	0.0	0.0	0.0	5.5	33.6	2.1	131	19	115
63046	CAN-CAR, MONTREAL ST THUNDER BAY	337	0.0	0.0	0.0	0.0	3.1	12.2	1.0	56	9	4
63084	RECREATION CENTRE RED ROCK	354	0.0	0.0	0.0	0.0	5.6	27.6	1.9	80	21	87
63090	ST MARTIN SCHOOL TERRACE BAY	352	0.0	0.0	0.0	0.0	3.4	25.5	1.5	155	28	72
63200	MTC 615 JAMES ST S THUNDER BAY	53	0.0	0.0	0.0	0.0	0.0	2.6	0.1	7	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	187	0.0	0.0	0.0	0.4	1.0	6.9	0.7	22	5	0
72084	ROSS RD SMOOTH ROCK FALLS	192	0.0	0.0	0.0	0.0	1.0	8.6	0.6	72	8	2
77203	SCIENCE NORTH SUDBURY	320	0.0	0.0	0.0	0.0	0.8	2.7	0.3	6	5	0

TABLE A-10 10-YEAR TREND FOR TRS

City	Annual Mean (ppb)									
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	2.4	3.0	3.1	2.8	1.8	2.0	3.4	1.5	.8	2.6
FORT FRANCES	3.3	2.5	2.9	3.3	3.1	2.1	2.8	1.9	1.1	1.2
HAMILTON	1.3	1.6	2.4	.9	1.3	1.2	1.4	1.8	1.4	1.4
THUNDER BAY	1.5	1.9	2.6	2.9	2.8	1.0	.5	.6	.8	1.0

TABLE A-11 CARBON MONOXIDE (CO) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1986		POLLUTANT - CARBON MONOXIDE					UNIT = PARTS/MILLION						JUN 26, 1987	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM 1HR	MAXIMUM 8HR	NO. OF TIMES ABOVE CRITERIA		
			10	30	50	70	90	99				1HR	8HR	
12008	467 UNIVERSITY AV W WINDSOR	349	0.0	0.0	0.0	0.3	1.0	3.2	0.5	13	5	0	0	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	318	0.0	0.0	0.0	0.0	0.1	2.9	0.2	10	4	0	0	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	331	0.0	0.0	0.0	0.0	0.6	2.7	0.3	10	6	0	0	
26029	EDNA/FREDERICK STS KITCHENER	320	0.0	0.0	0.3	0.7	1.3	3.5	0.9	13	5	0	0	
27037	NORTH/GENEVA ST ST CATHARINES	256	0.0	0.0	0.0	0.0	0.6	1.9	0.2	8	3	0	0	
29025	BARTON/WENTWORTH HAMILTON	356	0.0	0.2	0.5	0.8	1.6	3.5	1.1	12	8	0	0	
29102	467 BEACH BLVD HAMILTON	341	0.0	0.0	0.0	0.0	0.6	1.7	0.3	7	3	0	0	
31049	MISSION, 381 YONGE ST TORONTO	355	0.6	1.5	2.2	3.4	6.1	16.0	3.5	27	19	0	15	
31104	26 BREADALBANE TORONTO	360	0.0	0.1	0.4	0.8	1.4	2.9	1.0	14	5	0	0	
31105	SHERBOURNE/WILTON STS TORONTO	83	0.0	0.2	0.5	0.8	1.5	2.8	1.1	6	3	0	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	361	0.0	0.0	0.3	0.7	1.1	3.0	0.8	13	6	0	0	
31190	CN TOWER, 301 FRONT ST W TORONTO	321	0.0	0.0	0.0	0.0	0.7	1.0	0.3	4	2	0	0	
33003	LAWRENCE/KENNEDY SCARBORO	359	0.0	0.1	0.4	0.8	1.6	3.6	1.0	9	5	0	0	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	337	0.1	0.4	0.7	1.0	1.7	3.0	1.3	8	6	0	0	
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	317	0.1	0.3	0.6	0.8	1.5	2.9	1.2	6	4	0	0	

TABLE A-11 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - CARBON MONOXIDE		UNIT = PARTS/MILLION										RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	MAXIMUM 8HR	NO. OF TIMES ABOVE CRITERIA 1HR	NO. OF TIMES ABOVE CRITERIA 8HR	
35033	EVANS/ARNOLD AV ETOBICOKE	339	0.0 0.3 0.7 1.0 1.9 5.0 1.4							13	9	0	0		
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	327	0.0 0.3 0.5 0.7 1.0 2.3 1.0							11	4	0	0		
44015	BRONTE RD/WOBURN CRES OAKVILLE	354	0.0 0.0 0.4 0.8 1.7 4.4 1.0							11	5	0	0		
45025	PS, RITSON RD/OLIVE AV OSHAWA	304	0.0 0.1 0.5 1.0 1.9 3.9 1.2							13	6	0	0		
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	338	0.1 0.4 0.7 1.1 1.9 4.3 1.4							13	6	0	0		
51001	MCD GDS, RIDEAU/MURTENBURG ST OTTAWA	263	0.0 0.0 0.0 0.3 1.4 4.6 0.6							13	6	0	0		
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	354	0.0 0.0 0.0 0.0 0.4 2.0 0.2							11	4	0	0		
63200	MTC 615 JAMES ST S THUNDER BAY	61	0.0 0.0 0.0 0.5 1.1 4.5 0.7							18	6	0	0		
71066	FARWELL PUMPHOUSE SAULT STE MARIE	348	0.0 0.0 0.0 0.3 1.0 3.7 0.6							11	5	0	0		
77016	WATER TANK, ASH ST SUDBURY	351	0.0 0.0 0.0 0.0 0.0 1.1 0.1							8	4	0	0		
77203	SCIENCE NORTH SUDBURY	154	0.0 0.0 0.0 0.5 1.5 2.5 0.6							6	4	0	0		

TABLE A-12 10-YEAR TREND FOR CO

City	Annual Mean (ppm)									
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	.7	.5	.9	1.1	1.1	1.0	.2	.2	.2	.2
ETOBICOKE	1.3	1.6	1.3	1.1	1.0	1.1	1.6	1.4	1.3	1.2
HAMILTON	1.4	1.2	1.5	.9	1.2	1.1	.9	.8	1.2	1.1
KITCHENER	1.3	1.4	1.0	1.1	1.1	1.0	1.0	.9	.8	.9
LONDON	1.1	.9	.4	.3	.4	.3	.3	.4	.3	.3
NORTH YORK	1.4	1.9	1.6	1.4	1.7	2.3	-	1.3	1.4	1.3
OTTAWA	.9	.5	1.0	1.2	1.3	.9	.2	.3	.6	.6
SARNIA	1.8	.4	.3	.3	.2	.2	.1	.1	.2	.2
SCARBORO	1.8	2.0	1.5	1.5	1.4	1.6	1.2	1.4	1.3	1.0
ST CATHARINES	1.5	.9	.9	.6	1.0	.4	.4	.4	.2	.2
SUDBURY	.8	.3	.2	.1	.1	.1	.1	.1	.1	.1
TORONTO	1.6	1.8	1.5	-	1.3	1.5	1.1	1.0	1.1	1.0
WINDSOR	2.2	2.2	2.0	1.7	1.1	.5	.8	.5	.5	.5

TABLE A-13 TOTAL HYDROCARBON (THC) STATISTICS (1986)

YEAR - 1986		ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH								RUN DATE		
		POLLUTANT - TOTAL HYDROCARBONS				UNIT = PARTS/MILLION				JUN 26, 1987		
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	318	1.79	1.94	2.05	2.19	2.50	3.75	2.15	12.9	3.7	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	354	0.96	1.18	1.47	1.81	2.27	3.54	1.62	8.8	4.6	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	311	2.22	2.44	2.64	2.88	3.40	4.94	2.80	9.3	4.5	
31104	26 BREADALBANE TORONTO	318	1.11	1.35	1.51	1.69	2.04	3.19	1.61	5.0	3.3	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	350	1.47	1.68	1.85	2.05	2.53	4.22	2.01	10.1	4.2	
33003	LAWRENCE/KENNEDY SCARBORO	291	1.65	1.86	2.04	2.28	2.77	3.92	2.20	6.4	3.3	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	330	1.49	1.86	2.15	2.44	3.08	4.11	2.28	5.2	4.2	
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	333	1.72	1.91	2.09	2.31	2.93	5.05	2.31	15.1	3.8	
35033	EVANS/ARNOLD AV ETOBIKOKE	332	1.45	1.63	1.79	2.00	2.44	3.46	1.94	6.1	3.3	
44015	BRONTE RD/WOBURN CRES OAKVILLE	285	1.39	1.66	1.88	2.15	2.60	3.87	2.01	8.6	3.4	

TABLE A-14 10-YEAR TREND FOR THC

City	Annual Mean (ppm)									
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
ETOBICOKE	2.17	2.56	2.29	2.17	2.19	2.28	2.58	2.23	2.39	2.31
LONDON	2.22	2.43	2.30	2.41	2.36	2.48	2.57	2.89	2.85	2.80
NORTH YORK	2.53	2.03	1.67	1.48	1.68	2.11	2.31	2.19	2.18	2.28
SARNIA	2.64	2.64	1.99	1.86	2.09	2.12	2.02	2.04	1.93	1.62
SCARBORO	2.03	1.87	1.64	1.54	2.00	1.83	1.90	2.08	2.39	2.20
TORONTO	1.60	1.48	1.32	1.43	1.71	1.66	1.37	1.89	1.76	1.61
WINDSOR	2.35	2.27	1.86	2.22	2.18	2.12	2.09	2.29	2.08	2.15

TABLE A-15 REACTIVE HYDROCARBON (RHC) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - REACTIVE HYDROCARBONS		UNIT = PARTS/MILLION							RUN DATE			
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	PERCENTILES	50	70	90	99	ARITHMETIC MEAN	MAXIMUM	1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	286		0.12	0.20	0.25	0.29	0.42	0.88	0.32		2.4		1.0
22071	EXPERIMENTAL FARM SIMCOE	303		0.06	0.12	0.15	0.17	0.20	0.29	0.19		0.6		0.3
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	53		0.00	0.00	0.00	0.04	0.08	0.28	0.06		1.3		0.2
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	258		0.00	0.00	0.01	0.10	0.19	0.41	0.09		2.8		0.4
27037	NORTH/GENEVA ST ST CATHARINES	252		0.00	0.04	0.09	0.17	0.36	0.77	0.19		5.1		0.8
29025	BARTON/WENTWORTH HAMILTON	342		0.01	0.04	0.08	0.13	0.24	0.63	0.16		1.9		0.6
29102	467 BEACH BLVD HAMILTON	317		0.03	0.13	0.21	0.28	0.38	0.57	0.26		1.4		0.6

TABLE A-16 NITROGEN DIOXIDE (NO<sub>2</sub>) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1986		POLLUTANT - NITROGEN DIOXIDE					UNIT = PARTS/MILLION					JUN 26, 1987		
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM		NO. OF TIMES ABOVE CRITERIA		
			10	30	50	70	90	99		1HR	24HR	1HR	24HR	
12008	467 UNIVERSITY AV W WINDSOR	346	.002	.011	.018	.026	.039	.077	.025	.14	.07	0	0	
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	357	.000	.006	.013	.022	.037	.066	.021	.12	.05	0	0	
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	320	.004	.013	.019	.026	.038	.059	.026	.11	.06	0	0	
22071	EXPERIMENTAL FARM SIMCOE	327	.000	.000	.000	.003	.010	.028	.005	.09	.04	0	0	
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	348	.000	.000	.000	.002	.009	.026	.005	.07	.03	0	0	
22901	PROVINCIAL PARK LONG POINT	330	.000	.000	.001	.006	.012	.029	.007	.06	.03	0	0	
26029	EDNA/FREDERICK STS KITCHENER	337	.007	.017	.025	.034	.048	.073	.032	.13	.09	0	0	
27037	NORTH/GENEVA ST ST CATHARINES	263	.000	.006	.012	.018	.030	.052	.019	.11	.05	0	0	
29025	BARTON/WENTWORTH HAMILTON	338	.003	.014	.022	.029	.040	.065	.027	.10	.07	0	0	
29102	467 BEACH BLVD HAMILTON	298	.000	.010	.019	.027	.038	.057	.023	.12	.05	0	0	
29118	MAIN ST W/HWY 403 HAMILTON	356	.000	.005	.009	.017	.029	.059	.018	.12	.08	0	0	
31049	MISSION, 381 YONGE ST TORONTO	344	.009	.019	.027	.035	.049	.080	.033	.13	.09	0	0	
31104	26 BREADALBANE TORONTO	362	.004	.014	.021	.028	.040	.068	.027	.12	.07	0	0	
31105	SHERBOURNE/WILTON STS TORONTO	83	.001	.009	.015	.021	.029	.042	.020	.06	.04	0	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362	.009	.019	.027	.036	.050	.080	.034	.18	.08	0	0	

TABLE A-16 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - NITROGEN DIOXIDE		UNIT = PARTS/MILLION										RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	MAXIMUM 24HR	NO. OF TIMES ABOVE CRITERIA 1HR	NO. OF TIMES ABOVE CRITERIA 24HR	
31190	CN TOWER, 301 FRONT ST W TORONTO	305	.001	.006	.010	.015	.020	.033	.016	.20	.03	0	0		
33003	LAWRENCE/KENNEDY SCARBORO	355	.000	.007	.016	.024	.038	.068	.022	.12	.06	0	0		
34002	SC CTR, 770 DON MILLS RD NORTH YORK	330	.005	.012	.017	.023	.031	.049	.023	.11	.05	0	0		
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	345	.006	.014	.020	.028	.040	.062	.027	.12	.07	0	0		
35033	EVANS/ARNOLD AV ETOBIKOKE	357	.007	.018	.027	.037	.050	.075	.033	.14	.08	0	0		
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	341	.002	.009	.014	.020	.031	.051	.021	.09	.05	0	0		
44015	BRONTE RD/WOBURN CRES OAKVILLE	350	.000	.006	.013	.020	.034	.067	.020	.21	.05	1	0		
45025	PS, RITSON RD/OLIVE AV OSHAWA	355	.000	.006	.014	.023	.036	.063	.021	.12	.06	0	0		
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	283	.007	.014	.020	.027	.037	.055	.026	.10	.06	0	0		
48002	HWY47/E OF HWY48 STOUFFVILLE	356	.000	.002	.006	.009	.020	.039	.012	.07	.04	0	0		
49010	HWY 117/PAINT LAKE RD DORSET	345	.000	.000	.000	.001	.008	.024	.004	.13	.04	0	0		
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	357	.000	.000	.006	.013	.024	.040	.012	.09	.04	0	0		
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	360	.000	.000	.004	.009	.019	.045	.011	.08	.05	0	0		
63100	HAWKEYE LAKE	91	.000	.000	.000	.000	.000	.000	.000	.01	.00	0	0		
71066	FARWELL PUMPHOUSE SAULT STE MARIE	349	.000	.005	.010	.016	.027	.050	.017	.31	.07	2	0		
77203	SCIENCE NORTH SUDBURY	357	.000	.000	.004	.008	.017	.037	.010	.07	.03	0	0		

TABLE A-17 10-YEAR TREND FOR NO<sub>2</sub>

## Annual Mean (ppm)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	.017	.012	.011	.011	.011	.010	.011	.011	.010	.011
ETOBICOKE	.022	.025	.022	.018	.022	.021	.021	.024	.026	.027
HAMILTON	.056	.046	.029	.027	.029	.031	.029	.029	.025	.027
KITCHENER	.035	.032	.030	.026	.026	.028	.025	.027	.029	.032
LONDON	.028	.031	.030	.020	.017	.021	.021	.024	.025	.026
NORTH YORK	.023	.026	.023	.020	.014	.022	.023	.026	.027	.023
OAKVILLE	.020	.020	.022	.023	.020	.018	.016	.018	.016	.020
OTTAWA	.020	.018	.012	.017	.016	.015	.014	.014	.012	.012
SARNIA	.027	.031	.019	.022	.018	.022	.020	.023	.019	.021
SCARBORO	.040	.031	.027	.030	.025	.025	.019	.018	.018	.022
SIMCOE	.012	.014	.010	.012	.014	.010	.009	.009	.006	.005
ST CATHARINES	.024	.022	.026	.020	.022	.019	.020	.018	.017	.019
SUDBURY	.013	.012	.006	.006	.007	.006	.006	.006	.007	.010
TORONTO	.032	.032	.029	.028	.025	.027	.025	.027	.026	.027
WINDSOR	.033	.040	.033	.031	.030	.029	.026	.027	.026	.025

TABLE A-18 NITRIC OXIDE (NO) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986	POLLUTANT - NITRIC OXIDE		UNIT = PARTS/MILLION							RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	PERCENTILES 50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	356	.000	.003	.007	.013	.039	.166	.021	0.45	0.14
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	349	.000	.000	.000	.005	.019	.089	.009	0.37	0.15
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	305	.000	.000	.002	.011	.044	.189	.019	0.49	0.18
22071	EXPERIMENTAL FARM SIMCOE	296	.000	.000	.003	.006	.009	.019	.007	0.10	0.03
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	346	.000	.000	.000	.000	.000	.010	.001	0.35	0.02
22901	PROVINCIAL PARK LONG POINT	322	.000	.000	.000	.000	.000	.007	.000	0.04	0.02
26029	EDNA/FREDERICK STS KITCHENER	341	.000	.003	.014	.045	.138	.362	.051	0.75	0.26
27037	NORTH/GENEVA ST ST CATHARINES	253	.000	.000	.000	.003	.017	.090	.008	0.30	0.08
29025	BARTON/WENTWORTH HAMILTON	350	.000	.000	.006	.016	.051	.163	.022	0.50	0.15
29102	467 BEACH BLVD HAMILTON	291	.000	.000	.004	.021	.058	.146	.022	0.43	0.14
29118	MAIN ST W/HWY 403 HAMILTON	356	.000	.003	.008	.019	.071	.249	.029	0.53	0.20
31049	MISSION, 381 YONGE ST TORONTO	343	.018	.039	.065	.110	.189	.350	.094	0.95	0.31
31104	26 BREADALBANE TORONTO	358	.000	.000	.006	.017	.052	.180	.022	0.42	0.20
31105	SHERBOURNE/WILTON STS TORONTO	83	.005	.016	.029	.050	.103	.228	.049	0.42	0.14
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362	.000	.000	.006	.015	.053	.192	.023	0.57	0.17

TABLE A-18 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - NITRIC OXIDE							UNIT = PARTS/MILLION		RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM	1HR	24HR
31190	CN TOWER, 301 FRONT ST W TORONTO	313	.000	.000	.000	.000	.000	.033	.002	0.14	0.04	
33003	LAWRENCE/KENNEDY SCARBORO	355	.000	.000	.011	.029	.079	.233	.032	0.54	0.16	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	319	.000	.001	.006	.012	.053	.184	.022	0.46	0.16	
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	336	.000	.003	.009	.020	.073	.262	.031	0.71	0.19	
35033	EVANS/ARNOLD AV ETOBIKOKE	360	.000	.009	.027	.057	.125	.314	.054	0.85	0.24	
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	333	.000	.000	.005	.012	.045	.185	.020	0.64	0.13	
44015	BRONTE RD/WOBURN CRES OAKVILLE	361	.000	.000	.003	.012	.051	.189	.020	0.68	0.12	
45025	PS, RITSON RD/OLIVE AV OSHAWA	352	.000	.000	.000	.008	.044	.162	.016	0.57	0.11	
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	332	.000	.002	.009	.025	.075	.264	.032	0.54	0.19	
48002	HWY47/E OF HWY48 STOUFFVILLE	353	.000	.000	.000	.000	.008	.039	.004	0.12	0.03	
49010	HWY 117/PAINT LAKE RD DORSET	346	.000	.000	.000	.001	.016	.024	.005	0.06	0.03	
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	357	.000	.000	.000	.003	.026	.115	.010	0.47	0.07	
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	362	.000	.000	.000	.000	.007	.099	.005	0.39	0.07	
63100	HAWKEYE LAKE	91	.000	.000	.000	.000	.000	.000	.000	0.01	0.00	
71066	FARWELL PUMPHOUSE SAULT STE MARIE	349	.001	.006	.013	.021	.041	.109	.023	0.34	0.08	
77203	SCIENCE NORTH SUDBURY	354	.000	.000	.000	.005	.012	.062	.008	0.25	0.09	

TABLE A-19 10-YEAR TREND FOR NO

Annual Mean (ppm)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	.016	.008	.009	.007	.006	.005	.008	.007	.008	.005
ETOBICOKE	.032	.026	.027	.019	.026	.027	.026	.026	.027	.031
HAMILTON	.030	.027	.030	.021	.024	.024	.018	.023	.019	.022
KITCHENER	.049	.046	.044	.037	.058	.038	.045	.046	.047	.051
LONDON	.020	.020	.018	.016	.018	.015	.014	.017	.013	.019
NORTH YORK	.025	.036	.034	.028	.050	.036	.030	.027	.028	.022
OAKVILLE	.021	.028	.018	.020	.020	.015	.012	.017	.016	.020
OTTAWA	.026	.020	.026	.013	.015	.013	.009	.012	.011	.010
SARNIA	.017	.019	.017	.010	.014	.009	.010	.008	.007	.009
SCARBORO	.049	.049	.037	.029	.034	.028	.028	.033	.032	.032
SIMCOE	.009	.005	.003	.001	.002	.002	.002	.005	.004	.007
ST CATHARINES	.022	.021	.022	.009	.014	.008	.009	.016	.009	.008
SUDBURY	.010	.007	.006	.005	.006	.007	.005	.007	.010	.008
TORONTO	.026	.022	.019	.016	.023	.022	.019	.021	.019	.022
WINDSOR	.032	.027	.021	.019	.017	.011	.016	.028	.015	.021

TABLE A-20 TOTAL NITROGEN OXIDE (NO<sub>x</sub>) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - NITROGEN OXIDES		UNIT = PARTS/MILLION							RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR
12008	467 UNIVERSITY AV W WINDSOR	341		.010	.021	.030	.044	.078	.221	.046	.53	.18
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	346		.000	.007	.017	.030	.058	.138	.030	.43	.19
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	305		.006	.017	.028	.044	.080	.224	.044	.56	.21
22071	EXPERIMENTAL FARM SIMCOE	285		.000	.002	.006	.010	.019	.044	.012	.15	.06
22086	CHEAPSIDE RD(3 KM S OF HWY 3) NANTICOKE	346		.000	.000	.002	.007	.015	.039	.008	.34	.04
22901	PROVINCIAL PARK LONG POINT	303		.000	.000	.000	.002	.010	.036	.005	.09	.05
26029	EDNA/FREDERICK STS KITCHENER	298		.012	.028	.047	.088	.185	.404	.083	.79	.32
27037	NORTH/GENEVA ST ST CATHARINES	250		.000	.007	.015	.026	.049	.127	.027	.34	.11
29025	BARTON/WENTWORTH HAMILTON	336		.006	.021	.035	.050	.091	.210	.049	.54	.20
29102	467 BEACH BLVD HAMILTON	303		.000	.012	.032	.053	.092	.194	.045	.48	.24
29118	MAIN ST W/HWY 403 HAMILTON	356		.003	.013	.021	.042	.103	.292	.047	.59	.23
31049	MISSION, 381 YONGE ST TORONTO	333		.036	.067	.099	.149	.236	.407	.128	1.03	.36
31104	26 BREADALBANE TORONTO	324		.007	.019	.032	.048	.090	.214	.048	.43	.22
31105	SHERBOURNE/WILTON STS TORONTO	83		.015	.034	.052	.076	.131	.258	.070	.46	.17
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	362		.011	.025	.038	.056	.104	.262	.056	.72	.22

TABLE A-20 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986		POLLUTANT - NITROGEN OXIDES		UNIT = PARTS/MILLION							RUN DATE	
STATION NUMBER	LOCATION	NO. OF DAYS		10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR
31190	CN TOWER, 301 FRONT ST W TORONTO	302		.001	.006	.011	.016	.024	.060	.017	.20	.07
33003	LAWRENCE/KENNEDY SCARBORO	354		.000	.014	.033	.058	.118	.288	.055	.61	.21
34002	SC CTR, 770 DON MILLS RD NORTH YORK	318		.010	.020	.029	.041	.084	.218	.046	.50	.18
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	323		.012	.024	.036	.054	.113	.304	.059	.75	.23
35033	EVANS/ARNOLD AV ETOBICOKE	351		.011	.034	.059	.092	.167	.368	.083	.99	.32
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	330		.004	.014	.024	.037	.077	.230	.041	.71	.16
44015	BRONTE RD/WOBURN CRES OAKVILLE	353		.000	.009	.020	.037	.088	.243	.040	.76	.17
45025	PS, RITSON RD/OLIVE AV OSHAWA	349		.000	.008	.020	.038	.078	.203	.038	.62	.16
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	282		.012	.025	.037	.057	.113	.313	.059	.59	.21
48002	HWY47/E OF HWY48 STOUFFVILLE	351		.000	.003	.007	.014	.029	.072	.016	.16	.06
49010	HWY 117/PAINT LAKE RD DORSET	346		.000	.000	.000	.007	.018	.044	.008	.15	.06
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	357		.000	.000	.008	.020	.052	.148	.023	.47	.11
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	359		.000	.000	.005	.010	.029	.123	.016	.48	.11
63100	HAWKEYE LAKE	91		.000	.000	.000	.000	.000	.000	.000	.01	.00
71066	FARWELL PUMPHOUSE SAULT STE MARIE	350		.010	.018	.028	.041	.069	.147	.040	.38	.11
77203	SCIENCE NORTH SUDBURY	354		.000	.004	.008	.015	.029	.095	.018	.30	.12

TABLE A-21 OZONE ( $O_3$ ) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986

### **POLLUTANT = OZONE**

UNIT = PARTS/BILLION

RUN DATE  
JUN 26, 1987

STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM 1HR	NO. OF TIMES ABOVE CRITERIA 1HR	
			10	30	50	70	90	99				
10001	COLLEGE OF AGRIC TECH HURON PARK	333	8.7	17.0	23.9	30.6	44.9	72.9	26.1	107	64	44
12008	467 UNIVERSITY AV W WINDSOR	353	0.0	4.2	12.2	22.0	42.2	72.8	17.4	104	59	39
13021	MOE WATER PUMP STN, MIDDLE RD MERLIN	333	3.7	11.0	17.5	24.6	36.1	62.2	19.8	91	56	5
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	362	1.5	10.9	18.8	26.9	39.1	68.8	20.9	114	55	30
14118	PUC BLDG, HWY 21 MANDAUMIN	326	3.7	12.5	20.7	29.0	43.5	71.7	23.1	108	57	41
14119	PUC BLDG THEDFORD	342	5.7	15.2	23.6	33.3	46.5	72.8	26.0	121	68	44
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	357	0.4	7.7	15.6	23.7	38.2	65.1	18.4	99	57	14
15013	PUC BLDG PARKHILL	325	4.9	13.7	21.9	30.7	45.9	76.6	24.9	140	74	57
18007	CONCESSION RD 2 LOT A TIVERTON	357	11.4	19.4	25.4	32.8	43.7	68.4	27.5	131	69	31
22071	EXPERIMENTAL FARM SIMCOE	356	7.9	17.9	25.2	32.9	48.4	75.9	27.6	105	68	53
22901	PROVINCIAL PARK LONG POINT	325	10.0	20.5	28.3	36.3	55.9	91.6	31.4	124	90	165
26029	EDNA/FREDERICK STS KITCHENER	342	0.0	7.1	13.5	21.0	36.1	67.3	17.0	116	74	33
27037	NORTH/GENEVA ST ST CATHARINES	269	2.6	12.0	19.7	26.7	41.8	70.1	21.9	91	65	11
28028	EXHIBITION ST/CLARK ST GUELPH	254	3.0	12.4	20.8	28.3	42.4	69.2	22.7	102	66	24
29025	BARTON/WENTWORTH HAMILTON	289	0.3	5.0	12.3	21.2	36.7	63.2	16.4	88	63	5

TABLE A-21 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

YEAR - 1986	POLLUTANT - OZONE	UNIT = PARTS/BILLION										RUN DATE
STATION NUMBER	LOCATION	NO. OF DAYS	10	30	50	70	90	99	ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR
29105	NASH RD/KENTLEY DR HAMILTON	330	0.0	8.1	16.1	25.2	39.9	65.7	19.2	96	62	11
29114	VICKERS RD/EAST 18TH ST HAMILTON	316	0.1	8.3	16.8	25.9	42.3	72.4	20.1	94	65	34
29118	MAIN ST W/HWY 403 HAMILTON	345	0.0	3.9	11.8	20.2	34.3	59.3	15.0	85	60	3
31104	26 BREADALBANE TORONTO	350	1.0	4.7	10.6	18.4	31.9	61.0	14.6	86	54	11
31105	SHERBOURNE/WILTON STS TORONTO	83	0.1	2.2	6.1	10.6	16.8	24.0	7.9	38	15	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	345	0.0	3.5	11.1	20.7	36.3	72.0	15.6	97	53	36
31190	CN TOWER, 301 FRONT ST W TORONTO	319	3.2	6.2	13.5	25.6	39.1	63.2	18.7	91	60	7
33003	LAWRENCE/KENNEDY SCARBORO	347	0.0	4.4	12.1	21.2	38.2	73.2	16.6	110	61	46
34002	SC CTR, 770 DON MILLS RD NORTH YORK	305	0.0	1.2	4.9	9.1	17.2	36.8	7.4	70	34	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	359	0.0	2.9	12.0	22.2	39.6	78.0	16.8	113	69	75
35033	EVANS/ARNOLD AV ETOBIKOKE	354	0.0	2.0	7.6	15.0	31.3	70.0	12.8	102	65	28
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	335	0.4	8.5	16.7	25.0	41.5	73.2	19.8	99	55	46
44015	BRONTE RD/WOBURN CRES OAKVILLE	355	0.0	7.2	15.9	23.8	38.7	71.2	18.5	97	61	31
45025	PS, RITSON RD/OLIVE AV OSHAWA	360	0.2	7.1	15.5	23.1	33.7	60.6	17.2	112	61	20
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	324	0.0	4.8	11.9	20.1	35.4	65.9	15.7	103	54	17

TABLE A-21 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1986		POLLUTANT - OZONE		UNIT = PARTS/BILLION									JUN 26, 1987	
STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES						ARITH- METIC MEAN	MAXIMUM 1HR	24HR	NO. OF TIMES ABOVE CRITERIA 1HR		
			10	30	50	70	90	99						
47035	509 VICTORIA ST E ALLISTON	363	4.6	14.7	22.1	29.6	41.0	64.4	23.6	96	55	7		
48002	HWY47/E OF HWY48 STOUFFVILLE	353	3.8	12.3	18.7	24.2	35.2	59.6	20.0	103	59	7		
49010	HWY 117/PAINT LAKE RD DORSET	359	9.4	18.5	25.2	30.5	39.4	61.3	25.6	89	60	8		
51001	MCD GDS, RIDEAU/WURTENBURG ST OTTAWA	360	0.8	8.4	16.0	23.3	32.9	52.7	17.3	76	56	0		
56051	MEMORIAL PK, BEDFORD/THIRD STS CORNWALL	363	3.3	14.0	21.7	28.3	40.8	63.8	22.8	97	67	16		
59006	CITY HALL, 500 GEORGE ST PETERBORO	345	3.3	10.5	16.7	22.4	32.2	55.0	18.1	104	53	19		
63040	435 JAMES ST S THUNDER BAY	287	0.1	8.1	15.7	22.2	29.8	41.0	16.0	56	38	0		
63100	HAWKEYE LAKE	319	11.7	20.7	26.6	32.3	40.7	55.1	27.1	83	55	5		
63200	MTC 615 JAMES ST S THUNDER BAY	56	0.0	6.7	15.2	20.7	25.7	29.6	14.2	32	28	0		
71066	FARWELL PUMPHOUSE SAULT STE MARIE	350	3.1	8.3	13.0	17.9	27.1	35.8	14.6	61	36	0		
77016	WATER TANK, ASH ST SUDBURY	364	5.4	12.1	15.9	19.9	27.2	48.9	17.1	88	58	2		
77203	SCIENCE NORTH SUDBURY	256	9.9	18.1	23.9	29.7	39.0	63.0	25.2	104	67	8		

TABLE A-22 10-YEAR TREND FOR O<sub>3</sub>

Annual Mean (ppb)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CORNWALL	18.7	25.7	23.4	24.8	22.7	21.5	22.7	27.6	25.8	22.8
ETOBICOKE	16.7	19.1	11.0	13.4	14.5	15.6	15.7	16.5	18.1	16.8
HAMILTON	16.6	16.3	15.3	17.4	16.3	16.9	18.7	18.0	19.0	16.4
HURON PARK	29.6	29.8	25.9	23.6	23.9	23.4	24.2	26.5	26.5	26.1
KITCHENER	24.9	27.6	20.5	20.7	18.8	17.8	18.9	18.3	19.9	17.0
LONDON	20.9	20.5	16.6	18.5	19.8	21.3	21.0	19.4	21.3	18.4
MANDAUMIN	26.5	29.3	27.2	22.3	23.4	22.5	19.1	25.9	27.9	23.1
MERLIN	28.3	28.2	24.7	23.6	23.8	25.3	22.6	21.0	22.0	19.8
NORTH YORK	10.6	14.5	13.1	16.3	15.6	14.5	18.3	15.5	11.8	7.4
OAKVILLE	21.9	20.5	-	23.0	17.3	16.0	18.1	16.7	19.6	18.5
OTTAWA	19.2	19.2	17.2	15.4	15.2	17.1	17.6	17.8	19.2	17.3
SARNIA	19.5	22.7	23.2	21.6	21.3	22.7	23.0	23.3	22.9	20.9
SCARBORO	14.9	17.2	14.4	13.8	13.3	14.8	16.7	14.9	13.9	16.6
SIMCOE	33.6	35.2	28.1	26.3	28.9	32.3	30.0	28.7	30.6	27.6
ST CATHARINES	22.1	24.0	18.8	20.8	20.0	21.2	23.2	20.3	17.9	21.9
STOUFFVILLE	25.7	28.9	24.2	22.8	19.4	22.7	20.5	21.0	23.3	20.0
TORONTO	15.8	17.3	16.4	15.7	15.3	14.3	16.7	17.1	16.2	14.6
WINDSOR	20.6	18.0	15.7	19.9	18.8	18.1	18.7	18.9	19.7	17.4

TABLE A-23 TOTAL SUSPENDED PARTICULATE (TSP) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - SUSPENDED PARTICULATE	UNIT - MICROGRAMS/CU.METRE										NO OF TIMES ABOVE CRITERIA 24-HR 1-YR	
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN		
STATION NUMBER	LOCATION												
10015	PUC BLDG, 64 WEST ST GODERICH	58	16	25	31	41	52	81	106	34	31	0	0
11001	309 THOMAS ST ST MARYS	61	21	33	41	48	83	111	119	45	40	0	0
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	38	54	61	72	90	126	138	64	61	1	1
12005	7730 RIVERSIDE DR E WINDSOR	52	27	39	50	61	79	99	108	51	48	0	0
12006	BEACH LANE/HWY 18 LA SALLE	57	44	56	66	79	105	114	115	70	67	0	1
12007	WRIGHT/WATER ST WINDSOR	57	48	59	68	83	127	145	154	77	72	8	1
12008	467 UNIVERSITY AV W WINDSOR	313	35	52	66	81	113	154	193	70	63	21	1
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	25	37	45	58	75	97	109	49	45	0	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	26	39	56	75	100	150	164	61	53	3	0
12013	FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR	60	42	60	82	108	124	254	267	99	85	15	1
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	53	70	83	103	130	205	213	93	86	7	1
12016	COLLEGE/SOUTH ST WINDSOR	76	38	51	69	87	131	197	199	77	68	12	1
12036	1802 GEORGE AV WINDSOR	59	39	50	60	72	91	111	118	62	58	0	0
12037	3225 CALIFORNIA ST WINDSOR	55	38	49	57	64	74	102	107	57	55	0	0
12038	2885 HOWARD AV WINDSOR	56	48	61	70	78	112	135	144	73	69	5	1
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	35	53	66	71	90	116	120	64	61	0	1
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	53	34	45	52	57	68	76	79	51	49	0	0
12049	643 ALEXANDRINE WINDSOR	53	35	48	57	70	84	114	124	59	56	1	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	29	51	63	73	114	130	131	65	58	2	INS
12053	415 FRONT ST AMHERSTBURG	44	19	34	45	51	66	98	101	44	39	0	0
12115	HWY 18/PROSPECT BKUP WINDSOR	26	15	27	31	39	45	52	53	32	28	0	INS
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	27	35	49	54	77	95	99	49	45	0	0
14001	GENERAL HOSPITAL, 220 MITTON ST SARNIA	57	21	32	38	50	64	89	107	42	38	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	343	18	28	37	50	70	110	260	42	36	2	0
14030	RR1 (W OF HOUSE) CORUNNA	58	19	27	33	43	59	69	71	36	33	0	0
14031	RR1 (W OF BARN) MOORETOWN	54	18	27	34	41	55	69	70	36	33	0	0

TABLE A-23 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - SUSPENDED PARTICULATE	UNIT - MICROGRAMS/CU.METRE										NO OF TIMES 24-HR 1-YR	
STATION NUMBER	LOCATION	NO OF SAMPLES		10	30	PERCENTILES				MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA
14054	SARNIA YACHT CLUB, POINT EDWARD SARNIA		61	21	34	39	52	75	109	109	45	40	0 0
14059	ST CLAIR BLVD/HWY 40 CORUNNA		58	20	28	35	41	59	75	85	36	34	0 0
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA		58	29	36	47	54	77	99	109	49	45	0 0
14151	DAVID/FRONT ST SARNIA		59	22	32	40	50	83	114	116	47	41	0 0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON		57	26	40	53	64	92	133	161	56	50	1 0
15003	362 DUNDAS ST LONDON		55	24	39	46	57	82	122	130	52	46	1 0
15006	16 ALEXANDRIA ST ST THOMAS		49	31	40	50	61	89	121	139	56	51	1 0
15007	1012 TALBOT ST ST THOMAS		30	35	43	52	76	87	96	97	58	54	0 INS
15008	EDGEWARE RD (NNW VARTA PLT) ST THOMAS		53	17	27	35	43	56	107	128	38	34	1 0
15009	LONGWOODS CONSERVATION AUTHORITY		114	14	23	30	37	57	109	129	34	30	1 0
15014	POND MILLS RD/DEVERON CRES LONDON		36	30	38	44	48	67	75	76	46	43	0 INS
15015	951 COMMISSIONERS RD E LONDON		35	21	29	36	41	58	83	90	38	35	0 INS
15016	801 COMMISSIONERS RD E LONDON		37	22	32	36	48	67	78	80	41	37	0 INS
15017	8 MOUNTSFIELD DR LONDON		36	25	35	41	46	68	76	76	44	41	0 INS
17006	ST ANTHONY'S SS, HWY 2 BEACHVILLE		58	35	49	66	85	168	263	315	85	71	10 1
17020	HWY 2 RR 2 (J SPRIEL PROP) INGERSOLL		53	32	42	53	65	98	128	140	59	52	1 0
17021	OXFORD CTY RD 6 (HESSTON FARM) EMBRO		105	28	47	63	84	131	182	258	74	63	16 1
17022	182 WATER ST WINGHAM		20	25	33	44	64	87	131	140	53	46	1 INS
17206	ST ANTHONY'S SS, HWY2 BEACHVILLE		37	39	62	94	129	188	215	221	103	89	15 INS
17306	ST ANTHONY'S SS, HWY2 BEACHVILLE		36	34	54	58	76	118	206	233	72	63	4 INS
18014	369 LEOPOLD ST WINGHAM		18	13	18	26	43	59	100	107	34	27	0 INS
18015	TROWBRIDGE MEAFORD		36	23	28	36	53	73	133	146	46	39	1 INS
22087	JARVIS COMMUNITY CENTRE, JAMES ST JARVIS		52	24	39	42	55	76	132	155	49	44	1 0
22090	ST GEORGE/ALMA PORT DOVER		49	18	26	30	41	58	76	76	35	31	0 0
22092	RAINHAM RD/SANDUSK RD JARVIS		54	32	54	72	105	134	193	206	82	71	11 1
22904	WALPOLE S PS, SANDUSK RD NANTICOKE		55	18	27	32	41	57	81	89	36	33	0 0

TABLE A-23 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

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YEAR - 1986	POLLUTANT - SUSPENDED PARTICULATE	UNIT - MICROGRAMS/CU.METRE										NO OF TIMES ABOVE CRITERIA		
STATION NUMBER	LOCATION	NO OF SAMPLES		10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR	1-YR
22907	RAINHAM RD (NEAR STELCO GATE)													
	NANTICOKE	59	38	52	65	75	100	155	161	67	62		3	1
22961	NANTICOKE RD/MALPOLE CON 2													
	NANTICOKE	57	21	35	43	51	76	106	119	47	42		0	0
22964	N 2 KM NANTICOKE GS													
	NANTICOKE	55	18	31	37	44	71	104	124	41	36		1	0
22965	HWY 6/NORFOLK CON 2													
	JARVIS	52	21	29	34	50	66	92	104	40	36		0	0
26029	EDNA/FREDERICK STS													
	KITCHENER	58	34	45	61	71	91	137	154	61	56		2	0
27037	NORTH/GENEVA ST													
	ST CATHARINES	44	36	49	56	70	112	186	227	67	60		4	0
27045	337 ALBERTA/DEVON ST													
	WELLAND	54	26	32	40	53	68	105	117	46	42		0	0
27047	DAVIS/FRAZER													
	PORT COLBORNE	62	30	41	48	67	99	142	150	57	52		2	0
27050	4057 VICTORIA AV													
	NIAGARA FALLS	52	60	83	94	113	137	198	205	99	94		9	1
27051	HOLY T CHURCH, NORTON/PORTAGE													
	CHIPIAWA	60	38	52	60	78	99	186	214	68	62		3	1
27052	185 QUEEN ST S													
	THOROLD	58	71	99	147	188	276	570	731	168	144		34	1
27055	STP GROUNDS, STANLEY AV													
	NIAGARA FALLS	59	42	63	83	109	168	212	229	91	81		11	1
27056	ALLENDALE AV													
	NIAGARA FALLS	57	28	33	40	49	72	108	111	46	42		0	0
27059	188 EASTCHESTER AV													
	ST CATHARINES	39	44	50	63	78	102	126	129	68	64		3	INS
27060	PETRIE ST/DUNKIRK RD													
	ST CATHARINES	47	48	76	89	113	143	224	224	99	90		12	1
28027	HANLON EXPWY/SPEED RIVER													
	GUELPH	58	28	36	52	65	112	229	230	64	53		5	0
28028	EXHIBITION ST/CLARK ST													
	GUELPH	57	22	28	35	43	62	85	86	39	35		0	0
29001	HUGHSON/HUNTER													
	HAMILTON	58	36	52	64	83	142	353	468	88	70		9	1
29009	KENILWORTH													
	HAMILTON	60	36	48	54	77	104	177	193	69	61		5	1
29011	BURLINGTON/LEEDS													
	HAMILTON	60	66	85	105	129	225	336	341	125	110		22	1
29012	BURLINGTON/WELLINGTON													
	HAMILTON	59	36	56	64	81	131	191	212	75	66		7	1
29017	CHATHAM/FRID													
	HAMILTON	57	48	64	80	93	135	182	201	86	79		10	1
29025	BARTON/WENTWORTH													
	HAMILTON	342	42	60	74	96	136	247	337	85	76		55	1
29067	450 HUGHSON ST N													
	HAMILTON	57	28	40	50	58	84	128	137	54	50		2	0
29077	SPENCER VALLEY PS													
	GREENSVILLE	40	22	36	63	82	145	221	249	73	56		6	INS
29087	405 CUMBERLAND AV													
	HAMILTON	58	29	41	50	66	93	232	243	61	52		3	0

TABLE A-23 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - SUSPENDED PARTICULATE	UNIT - MICROGRAMS/CU.METRE										NO OF TIMES		
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR	1-YR	
29089	BARTON/NASH RD HAMILTON	53	33	53	65	78	103	129	142	67	62	1	1	
29098	BAY/MAIN ST HAMILTON	57	28	38	48	62	104	213	287	61	51	5	0	
29102	467 BEACH BLVD HAMILTON	340	36	54	75	105	141	206	229	84	73	69	1	
29111	OFIELD RD/HWY 5 GREENSVILLE	60	42	56	76	130	274	475	704	124	88	19	1	
29113	GERTRUDE/DEPEN HAMILTON	42	44	65	83	108	168	296	321	101	87	9	1	
29114	VICKERS RD/EAST 18TH ST HAMILTON	54	28	34	45	57	89	131	139	52	45	2	0	
29118	MAIN ST W/HWY 403 HAMILTON	57	25	35	48	58	94	184	193	55	47	3	0	
29119	MORLEY ST/PARKDALE AV HAMILTON	49	57	76	95	126	170	198	206	105	96	16	1	
31058	MOSLEY/LESLIE STS TORONTO	340	33	47	60	77	113	183	213	68	60	29	0	
31064	17 BERKSHIRE AV TORONTO	80	25	37	47	65	104	172	177	58	51	6	0	
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	263	35	48	60	78	105	158	211	67	61	16	1	
31084	MAYDWELL MFG, 65 SAULTER ST TORONTO	180	35	50	65	77	110	204	229	71	63	16	1	
31085	TECUMSETH/NIAGARA ST TORONTO	342	35	49	60	74	105	169	214	66	60	20	0	
31104	26 BREADALBANE TORONTO	334	30	40	52	65	88	122	138	56	51	5	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	108	28	38	45	55	75	101	103	48	43	0	0	
31126	969 EASTERN AV TORONTO	234	28	39	50	64	100	162	185	58	51	11	0	
31181	60 BATHURST ST TORONTO	301	32	45	57	70	100	153	167	61	56	10	0	
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	210	34	46	58	72	111	190	431	66	59	13	0	
33003	LAWRENCE/KENNEDY SCARBORO	112	32	46	54	66	93	121	147	59	55	3	0	
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	106	20	34	41	57	83	140	163	49	42	2	0	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	116	23	31	39	50	72	109	137	44	40	1	0	
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	111	30	45	63	82	140	319	472	80	63	14	1	
35005	QUEENSWAY HOSPITAL ETOBICOKE	113	32	44	53	64	94	121	121	57	52	2	0	
35033	EVANS/ARNOLD AV ETOBICOKE	110	38	50	62	77	99	136	139	66	61	4	1	
35037	3050 LAKESHORE BLVD W ETOBICOKE	252	34	48	58	73	99	144	185	63	57	10	0	
35051	RESOURCES RD (MOL LAB) ETOBICOKE	312	28	41	51	65	95	137	206	56	50	9	0	

TABLE A-23 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

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STATION NUMBER	LOCATION	YEAR - 1986		POLLUTANT - SUSPENDED PARTICULATE		UNIT - MICROGRAMS/CU.METRE							NO OF TIMES ABOVE CRITERIA		
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR	1-YR		
44005	2487 LAKESHORE E/BIRKBANK RDS OAKVILLE	106	18	27	38	48	73	103	128	42	36	1	0		
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	23	38	47	61	80	115	128	51	45	1	0		
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	20	36	45	56	81	109	130	48	43	1	0		
45001	FIRE HALL, BAYLY/BROCK PICKERING	260	22	37	48	64	95	161	261	55	47	12	0		
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	116	23	37	44	55	74	98	143	48	43	1	0		
45025	PS, RITSON RD/OLIVE AV OSHAWA	117	30	44	51	60	88	124	163	56	51	2	0		
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	32	35	47	51	64	84	120	122	58	53	1	INS		
46033	FIRE HALL, BRAMALEA RD BRAMALEA	52	26	48	61	76	123	163	182	67	59	6	0		
46041	2414 DIXIE RD MISSISSAUGA	327	38	54	69	88	121	174	195	75	68	33	1		
46045	2365 DIXIE RD MISSISSAUGA	331	34	52	66	85	123	165	176	73	66	36	1		
46046	2360 DIXIE RD MISSISSAUGA	304	35	52	65	80	104	151	172	68	62	19	1		
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	118	27	46	54	64	87	130	164	56	51	2	0		
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	57	22	33	39	48	72	118	125	45	40	1	0		
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	89	19	28	35	47	65	95	123	39	35	1	0		
48002	HWY47/E OF HWY48 STOUFFVILLE	113	19	28	38	46	66	99	126	39	35	1	0		
58027	51 SHUTER ST PORT HOPE	88	16	22	30	42	58	95	96	35	31	0	0		
58041	FILT PLT, MARSH ST PORT HOPE	89	16	23	33	46	81	129	225	43	35	1	0		
58042	CAN TIRE, QUEEN ST PORT HOPE	90	18	26	32	40	53	76	84	35	32	0	0		
59006	CITY HALL, 500 GEORGE ST PETERBORO	57	18	26	40	46	77	153	161	45	36	4	0		
62013	WEATHER STN ATIKOKAN	53	11	18	22	28	39	46	49	24	22	0	0		
62032	CEMETERY, COLONIZATION RD W FORT FRANCES	53	15	20	26	41	62	104	110	35	29	0	0		
62035	LEGION BLDG, 250 CHURCH ST FORT FRANCES	50	29	40	67	91	147	186	200	75	62	9	1		
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	55	20	31	41	50	79	109	122	45	40	1	0		
63012	DAWSON CT/ALGOMA ST N THUNDER BAY	55	16	23	30	43	60	97	104	36	31	0	0		
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	53	18	26	33	41	66	86	105	37	33	0	0		
63040	435 JAMES ST S THUNDER BAY	49	18	23	34	39	57	75	78	34	30	0	0		

TABLE A-23 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH													RUN DATE	
YEAR - 1986		POLLUTANT - SUSPENDED PARTICULATE		UNIT - MICROGRAMS/CU.METRE									JUL 13, 1987	
STATION NUMBER	LOCATION	NO OF SAMPLES		10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	NO OF TIMES ABOVE CRITERIA 24-HR 1-YR	
63046	CAN-CAR, MONTREAL ST THUNDER BAY		55	21	35	44	57	84	114	131	50	44	1	0
63052	TRNSIT MAINT BD, WILLIAM RD THUNDER BAY		57	25	34	46	60	84	166	202	53	45	3	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE		53	30	45	77	114	171	317	344	95	74	15	1
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE		52	18	28	33	42	71	107	128	39	34	1	0
71065	HOSPITAL, LAKESHORE AV BLIND RIVER		53	9	16	21	28	37	54	57	23	20	0	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE		78	27	38	53	65	119	180	207	61	52	7	0
72077	MINISTRY OF HEALTH BLDG TIMMINS		53	15	25	30	38	72	128	149	38	31	1	0
75010	OPP STN NORTH BAY		46	18	23	27	35	48	85	94	32	29	0	0
77016	WATER TANK, ASH ST SUDBURY		55	17	25	32	35	46	62	72	31	29	0	0
77026	19 LISGAR ST SUDBURY		51	17	26	29	34	75	91	98	36	32	0	0
77029	POST OFFICE, SPRUCE/BARBER ST ESPAÑOLA		56	21	27	34	50	76	123	124	43	37	2	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF		60	18	24	28	38	66	84	84	35	31	0	0

TABLE A-24 10-YEAR TREND FOR TSP

Annual Geometric Mean (ug/m<sup>3</sup>)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
ATIKOKAN	30	28	36	39	26	20	21	23	23	22
BELLEVILLE	59	61	57	53	42	39	53	47	23	-
BRAMALEA	55	57	67	60	53	61	65	66	62	59
CHATHAM	64	77	70	75	65	48	45	41	43	45
CORNWALL	48	44	58	52	47	40	48	46	-	-
ETOBICOKE	65	71	84	83	91	74	53	59	58	61
FORT FRANCES	32	31	39	40	39	32	33	32	26	29
HAMILTON	96	102	100	88	72	81	75	81	71	76
KITCHENER	54	68	80	64	64	54	51	58	46	56
LONDON	58	72	76	83	58	51	52	55	42	50
MISSISSAUGA	66	58	70	70	73	62	60	68	55	53
NORTH BAY	-	-	34	46	37	34	33	37	25	29
NORTH YORK	41	42	52	48	44	43	38	39	40	40
OAKVILLE	38	43	47	62	50	45	40	47	43	43
ORILLIA	64	38	50	50	44	59	42	43	42	40
OSHAWA	57	47	62	58	54	47	42	44	41	43
PETERBOROUGH	41	42	59	52	39	42	46	42	39	36
PICKERING	49	70	64	49	50	48	41	47	49	47
S.S.MARIE	38	38	53	62	45	40	35	37	36	34
SARNIA	76	80	66	76	62	58	59	45	46	45
SCARBORO	59	59	70	70	59	57	51	60	53	55
ST CATHARINES	57	56	67	62	57	56	68	58	50	60
SUDBURY	35	32	37	42	40	34	28	28	26	29
THUNDER BAY	47	44	51	51	52	39	35	44	36	40
TORONTO	67	67	72	67	58	55	54	54	50	51
WINDSOR	82	79	80	77	69	62	53	50	50	61

TABLE A-25 LEAD (Pb) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - LEAD	UNIT - .1 MICROGRAMS/CU.METRE										TIMES ABOVE CRITERIA
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES 50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	40	1	1	1	1	2	3	4	1	1	0
12005	7730 RIVERSIDE DR E WINDSOR	52	1	1	1	1	2	4	5	1	1	0
12007	WRIGHT/WATER ST WINDSOR	34	1	1	1	1	2	3	3	1	0	0
12008	467 UNIVERSITY AV W WINDSOR	313	1	1	2	2	3	6	18	2	2	0
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	1	1	1	1	2	4	6	1	0	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	1	1	1	1	2	3	5	6	1	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	60	1	1	1	2	3	4	5	2	1	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	1	1	1	1	2	3	3	1	1	0
12038	2885 HOWARD AV WINDSOR	56	1	1	2	2	4	7	7	2	2	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	1	1	2	3	5	10	10	3	2	0
12047	DORMIN PLAZA, DOUGALL AV WINDSOR	52	1	1	1	1	2	3	3	1	1	0
12049	643 ALEXANDRINE WINDSOR	53	1	1	1	2	3	6	7	2	1	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	1	1	2	2	4	7	7	2	2	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	1	1	1	1	2	3	4	1	1	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	1	1	1	1	1	1	2	0	0	0
14030	RR1 (W OF HOUSE) CORUNNA	53	1	1	1	1	1	1	1	0	0	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	1	1	1	1	0	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	1	2	3	3	1	1	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	1	1	2	2	3	4	5	2	1	0
15003	362 DUNDAS ST LONDON	55	1	1	1	1	3	5	6	1	0	0
15008	EDGWARE RD (NNW YARTA PLT) ST THOMAS	53	1	1	1	1	2	3	4	1	0	0
15009	LONGWOODS CONSERVATION AUTHORITY	114	1	1	1	1	1	1	1	0	0	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	1	1	1	2	3	8	8	2	1	0
15015	951 COMMISSIONERS RD E LONDON	35	1	1	1	1	3	4	4	1	1	0
15016	801 COMMISSIONERS RD E LONDON	37	1	1	1	1	1	4	4	1	1	0
15017	8 MOUNTSFIELD DR LONDON	36	1	1	1	1	2	3	4	1	1	0

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

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STATION NUMBER	LOCATION	NO OF SAMPLES	UNIT - .1 MICROGRAMS/CU.METRE							TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
22907	RAINHAM RD (NEAR STELCO GATE) NANTICOKE	58	1	1	1	1	1	1	2	0	0
26029	EDNA/FREDERICK STS KITCHENER	57	1	2	3	6	9	18	18	5	3
27037	NORTH/GENEVA ST ST CATHARINES	44	1	1	1	2	2	4	4	2	1
27059	188 EASTCHESTER AV ST CATHARINES	38	1	1	1	2	2	9	17	2	1
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	1	1	1	2	3	4	4	2	1
28028	EXHIBITION ST/CLARK ST GUELPH	54	1	1	1	1	2	3	3	1	1
29001	HUGHSON/HUNTER HAMILTON	53	1	1	2	3	5	9	11	3	2
29011	BURLINGTON/LEEDS HAMILTON	56	1	2	2	3	4	6	7	2	2
29012	BURLINGTON/WELLINGTON HAMILTON	53	1	1	1	1	2	4	5	1	1
29017	CHATHAM/FRID HAMILTON	51	1	1	2	2	3	6	7	2	2
29025	BARTON/WENTWORTH HAMILTON	81	1	2	3	4	5	8	10	3	3
29067	450 HUGHSON ST N HAMILTON	54	1	1	1	1	2	4	5	1	1
29102	467 BEACH BLVD HAMILTON	77	1	1	2	2	3	5	6	2	2
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	1	1	1	1	2	4	6	1	1
31058	MOSLEY/LESLIE STS TORONTO	340	1	3	6	11	25	60	127	11	6
31064	17 BERKSHIRE AV TORONTO	80	1	1	2	4	9	12	13	3	2
31082	WORKS DEPT, 138 HAMILTON AV TORONTO	248	2	3	4	5	8	17	26	5	4
31084	MAYDWELL MFG, 65 SAULTER ST TORONTO	175	1	1	2	3	5	11	12	2	1
31085	TECUMSETH/NIAGARA ST TORONTO	342	2	4	8	13	24	53	159	12	7
31104	26 BREADALBANE TORONTO	323	1	1	2	2	3	5	6	2	2
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	105	1	1	1	2	3	7	7	1	1
31123	26 BREADALBANE TORONTO	38	1	2	2	3	4	5	5	2	2
31126	969 EASTERN AV TORONTO	200	1	1	2	3	5	10	14	2	1
31181	60 BATHURST ST TORONTO	301	1	2	3	6	11	25	37	5	3
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	1	1	2	2	3	5	6	2	2
33003	LAWRENCE/KENNEDY SCARBORO	100	1	2	2	3	4	6	8	2	2

TABLE A-25 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - LEAD	UNIT - .1 MICROGRAMS/CU.METRE										
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES 50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	102	1	1	1	1	2	5	5	1	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	1	1	1	2	3	6	6	2	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	98	1	1	2	2	4	6	11	2	2	0
35033	EVANS/ARNOLD AV ETOBIKOKE	100	1	2	3	4	5	10	10	3	3	0
35037	3050 LAKESHORE BLVD W ETOBIKOKE	228	1	1	2	2	3	4	5	2	2	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	1	1	1	2	3	5	7	2	1	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	1	1	1	2	3	4	5	1	1	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	1	1	1	2	3	4	5	2	1	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	1	1	1	2	3	4	4	2	1	0
45025	PS, RITSON RD/OLIVE AV OSHAWA	115	1	1	1	2	3	6	7	1	1	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	1	1	2	2	3	3	3	2	2	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	1	1	2	3	4	6	7	2	2	0
46041	2414 DIXIE RD MISSISSAUGA	328	5	13	24	48	113	199	270	43	24	93
46045	2365 DIXIE RD MISSISSAUGA	332	2	4	7	13	31	86	104	13	7	17
46046	2360 DIXIE RD MISSISSAUGA	304	4	9	17	37	76	155	244	32	18	64
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	117	1	1	1	2	4	6	8	2	1	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	1	1	1	2	3	5	5	1	1	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	1	1	1	2	2	3	3	1	1	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	1	1	1	2	3	3	4	2	1	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	1	1	1	1	2	2	2	1	1	0
63040	435 JAMES ST S THUNDER BAY	49	1	1	1	1	1	1	1	0	0	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	1	1	1	1	2	2	2	1	0	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	1	1	1	1	2	2	3	1	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	1	1	1	2	3	4	4	2	1	0

TABLE A-25 (Cont.)

YEAR - 1986		POLLUTANT - LEAD		ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH							RUN DATE		
				UNIT - .1 MICROGRAMS/CU.METRE							JUL 13, 1987		
STATION NUMBER	LOCATION	NO OF SAMPLES		10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
72077	MINISTRY OF HEALTH BLDG TIMMINS	46		1	1	1	1	2	3	5	1	1	0
75010	OPP STN NORTH BAY	45		1	1	1	1	2	4	4	1	1	0
77016	WATER TANK, ASH ST SUDBURY	47		1	1	1	1	2	2	3	1	1	0
77026	19 LISGAR ST SUDBURY	49		1	1	1	2	2	3	3	1	1	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51		1	1	1	1	2	6	8	1	1	0

TABLE A-26 10-YEAR TREND FOR Pb

City	Annual Geometric mean (ug/m <sup>3</sup> )									
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CHATHAM	.4	.4	.3	.3	.2	.2	.2	.2	.1	.1
CORNWALL	.4	.2	.2	.1	.2	.2	.2	.1	—	—
ETOBICOKE	.5	.5	.2	.1	.2	.3	.3	.2	.2	.2
HAMILTON	.8	.9	.6	.5	.6	.4	.4	.4	.3	.3
LONDON	.5	.6	.5	.4	.3	.3	.3	.3	.2	.1
MISSISSAUGA	.5	.5	.4	.3	.4	.3	.3	.3	.2	.2
NORTH BAY	—	—	.2	.2	.2	.2	.2	.1	.1	.1
PETERBORO	.4	.4	.3	.3	.3	.2	.2	.2	.2	.1
SARNIA	.6	.1	.2	.1	.1	.1	.2	.1	.1	.1
SCARBORO	.2	.4	.4	.3	.3	.3	.3	.4	.3	.2
SUDBURY	.3	.2	.1	.1	.2	.1	.1	.1	.1	.1
THUNDER BAY	.4	.2	.2	.1	.2	.2	.2	.2	.1	.1
TORONTO	.7	.6	.4	.3	.4	.2	.3	.3	.2	.2
WINDSOR	.8	.5	.3	.3	.2	.2	.2	.2	.2	.2

TABLE A-27 COPPER (Cu) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												RUN DATE
YEAR - 1986	POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE						UNIT - .01 MICROGRAMS/CU.METRE					JUL 13, 1987
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	8	16	28	48	60	78	86	33	25	0
12005	7730 RIVERSIDE DR E WINDSOR	52	3	5	7	9	13	17	19	8	7	0
12008	467 UNIVERSITY AV W WINDSOR	313	3	6	9	16	33	62	79	14	10	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	4	6	7	9	35	88	99	14	9	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	60	6	11	15	21	32	94	100	20	15	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	6	11	14	19	35	63	69	18	14	0
12038	2885 HOWARD AV WINDSOR	56	7	21	28	32	40	49	50	26	22	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	5	11	17	22	35	83	83	21	15	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	8	13	24	33	46	92	110	27	20	0
12049	643 ALEXANDRINE WINDSOR	53	6	9	13	20	34	48	49	16	13	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	6	9	11	15	48	67	68	18	13	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	5	12	17	29	43	63	82	21	16	0
14030	RR1 (W OF HOUSE) CORUNNA	53	3	7	9	12	16	25	26	10	8	0
14031	RR1 (W OF BARN) MOORETOWN	50	2	5	6	8	11	14	16	7	6	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	3	6	15	29	41	62	64	20	13	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	6	11	13	18	22	36	38	15	13	0
15009	LONGWOODS CONSERVATION AUTHORITY	114	5	14	20	30	44	127	304	27	18	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	1	2	4	5	7	47	121	7	3	0
15015	951 COMMISSIONERS RD E LONDON	35	1	1	2	4	6	8	8	2	1	0
15016	801 COMMISSIONERS RD E LONDON	37	1	1	2	4	8	45	47	6	2	0
15017	8 MOUNTSFIELD DR LONDON	36	1	3	4	6	9	27	32	6	4	0
26029	EDNA/FREDERICK STS KITCHENER	57	3	6	14	22	34	86	97	18	11	0
27037	NORTH/GENEVA ST ST CATHARINES	44	6	9	13	14	23	39	52	14	12	0
27059	188 EASTCHESTER AV ST CATHARINES	38	10	17	21	26	30	35	36	21	19	0
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	5	7	12	15	18	20	21	11	9	0
29001	HUGHSON/HUNTER HAMILTON	53	2	4	6	10	27	50	57	11	7	0

TABLE A-27 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

STATION NUMBER	LOCATION	POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE						UNIT - .01 MICROGRAMS/CU.METRE				TIMES ABOVE CRITERIA 24-HR	
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN		
29011	BURLINGTON/LEEDS HAMILTON	56	5	10	13	17	25	36	38	15	12	0	
29012	BURLINGTON/WELLINGTON HAMILTON	53	6	10	11	16	24	35	40	14	11	0	
29017	CHATHAM/FRID HAMILTON	51	9	12	14	17	25	44	64	16	15	0	
29025	BARTON/WENTWORTH HAMILTON	81	7	12	15	21	27	40	42	17	15	0	
29067	450 HUGHSON ST N HAMILTON	54	5	6	7	10	15	19	20	9	8	0	
29102	467 BEACH BLVD HAMILTON	77	5	11	16	20	26	47	55	17	14	0	
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	3	4	6	9	14	19	22	7	6	0	
31058	MOSLEY/LESLIE STS TORONTO	322	4	6	8	12	23	38	50	11	9	0	
31064	17 BERKSHIRE AV TORONTO	80	6	9	15	19	28	55	58	17	14	0	
31104	26 BREADALBANE TORONTO	323	4	8	11	16	25	40	157	14	11	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	10	17	24	32	53	90	95	28	23	0	
31126	969 EASTERN AV TORONTO	90	5	8	9	11	16	20	22	10	9	0	
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	5	9	13	18	27	41	135	15	12	0	
33003	LAWRENCE/KENNEDY SCARBORO	100	5	9	11	15	23	36	52	13	11	0	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	11	14	17	20	25	43	58	18	17	0	
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	98	2	8	14	29	45	67	181	22	13	0	
35033	EVANS/ARNOLD AV ETOBICOKE	100	5	6	8	10	13	24	27	9	8	0	
35037	3050 LAKESHORE BLVD W ETOBICOKE	228	9	14	21	40	107	251	415	42	25	0	
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	2	4	6	8	11	18	20	7	5	0	
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	5	10	14	17	22	31	44	14	11	0	
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	6	10	14	18	27	47	57	16	13	0	
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	6	10	16	23	29	40	47	17	14	0	
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	3	6	8	10	16	20	20	9	8	0	
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	9	17	22	33	49	53	53	25	21	0	
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	3	5	7	9	16	23	39	8	7	0	
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	1	3	5	12	17	28	31	8	5	0	

TABLE A-27 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												RUN DATE
YEAR - 1986		POLLUTANT - COPPER IN TOTAL SUSPENDED PARTICULATE				UNIT - .01 MICROGRAMS/CU.METRE				JUL 13, 1987		
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99				
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	2	4	6	9	35	50	52	12	7	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	4	15	19	22	26	63	102	19	15	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	1	2	4	6	14	24	28	6	3	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	6	10	13	24	35	70	83	19	14	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	6	8	12	16	23	22	23	12	10	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	3	5	6	7	10	12	12	6	5	0
75010	OPP STN NORTH BAY	45	8	10	12	15	22	31	33	14	13	0
77016	WATER TANK, ASH ST SUDBURY	47	14	31	37	45	78	131	140	45	37	0
77026	19 LISGAR ST SUDBURY	49	8	17	26	37	75	94	96	32	24	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	16	23	33	54	180	756	986	90	44	0

TABLE A-28 10-YEAR TREND FOR Cu

Annual geometric mean (ug/m<sup>3</sup>)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
BELLEVILLE	-	.07	.10	.15	.10	.15	.22	.31	.29	-
BRAMALEA	.28	.72	.58	.49	.23	.12	.15	.18	.20	.21
CHATHAM	.07	.06	.05	.04	.10	.23	.18	.10	.11	.13
CORNWALL	-	.20	.34	.19	.35	.19	.31	.26	-	-
ETOBICOKE	.23	.22	.08	-	.23	.08	.12	.10	.16	.08
HAMILTON	-	.40	.29	.19	.22	.23	.32	.30	.23	.15
LONDON	.22	.47	.26	.18	.30	.13	.33	.21	.16	.13
MISSISSAUGA	.13	.44	.20	.33	.37	.23	.14	.10	.08	.08
NORTH BAY	-	.03	.38	.43	.40	.38	.22	.20	.15	.13
NORTH YORK	.15	.19	.11	-	.11	.20	.16	.20	.22	.17
OSHAWA	.15	.10	.14	.08	.05	.10	.12	.11	.16	.14
PICKERING	.24	.36	.30	-	.26	.20	.28	.23	.15	.13
S.S.MARIE	.43	.48	.65	.55	.20	.13	.26	.14	.16	.14
SCARBORO	-	.12	.07	-	.08	.17	.20	.12	.09	.11
SUDBURY	.52	.18	.33	.48	.24	.24	.39	.30	.37	.37
THUNDER BAY	.04	.04	.06	.09	.11	.08	.18	.19	.19	.07
TORONTO	.24	.13	.17	-	.10	.12	.16	.15	.12	.11
WINDSOR	.14	.17	.07	.04	.02	.05	.05	.05	.09	.25

TABLE A-29 IRON (Fe) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986 STATION NUMBER	POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE LOCATION	NO OF SAMPLES	UNIT - 1 MICROGRAMS/CU.METRE							ARITH MEAN	GEOM MEAN
			10	30	50	70	90	99	MAX		
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	5	8	11	13	21	33	38	12	10
12005	7730 RIVERSIDE DR E WINDSOR	52	3	6	7	10	18	26	29	9	7
12007	WRIGHT/WATER ST WINDSOR	33	4	11	15	25	38	57	59	20	15
12008	467 UNIVERSITY AV W WINDSOR	313	5	9	13	19	34	120	170	19	13
12010	SEWAGE STN, HANNING RD WINDSOR	54	3	6	9	14	23	35	42	11	8
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	60	9	15	22	31	80	154	155	35	24
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	7	14	18	24	37	64	64	21	17
12016	COLLEGE/SOUTH ST WINDSOR	76	1	2	6	16	34	58	104	13	5
12038	2885 HOWARD AV WINDSOR	56	6	15	25	47	79	242	345	42	24
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	8	18	14	21	28	78	87	18	15
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	6	9	10	14	18	34	54	12	10
12049	643 ALEXANDRINE WINDSOR	53	6	9	13	19	31	41	44	16	14
12051	604 CAPITOL/REMINGTON WINDSOR	30	6	9	19	25	45	60	65	21	14
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	2	4	5	6	10	16	20	6	5
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	1	2	3	5	8	15	20	4	3
14030	RR1 (W OF HOUSE) CORUNNA	53	1	2	3	4	7	12	14	4	3
14031	RR1 (W OF BARN) MOORETOWN	50	1	2	3	4	6	11	11	3	2
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	2	3	4	6	8	14	15	5	4
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	1	3	5	8	11	20	22	6	5
15009	LONGWOODS CONSERVATION AUTHORITY	114	1	1	2	3	5	18	24	3	2
15014	POND MILLS RD/DEVERON CRES LONDON	36	1	3	4	6	8	22	25	5	4
15015	951 COMMISSIONERS RD E LONDON	35	1	1	3	5	7	13	16	4	3
15016	801 COMMISSIONERS RD E LONDON	37	1	1	3	4	6	11	14	3	2
15017	8 MOUNTSFIELD DR LONDON	36	1	1	3	4	6	12	17	3	3
17022	182 WATER ST WINGHAM	20	3	4	5	12	18	24	24	9	6
18014	369 LEOPOLD ST WINGHAM	18	1	1	2	3	7	11	12	3	2

TABLE A-29 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986 STATION NUMBER	LOCATION	POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE						UNIT - .1 MICROGRAMS/CU.METRE					
		NO OF SAMPLES		10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	
18015	TROWBRIDGE			36	3	3	6	9	19	54	65	10	6
	MEAFORD												
26029	EDNA/FREDERICK STS			57	2	4	5	8	12	19	24	7	5
	KITCHENER												
27037	NORTH/GENEVA ST			44	3	6	9	12	15	21	21	9	8
	ST CATHARINES												
27059	188 EASTCHESTER AV			38	6	9	11	17	35	49	51	16	13
	ST CATHARINES												
27060	PETRIE ST/DUNKIRK RD			45	5	10	15	18	26	34	36	15	12
	ST CATHARINES												
29001	HUGHSON/HUNTER			53	6	8	12	26	71	278	380	35	16
	HAMILTON												
29011	BURLINGTON/LEEDS			56	20	30	44	70	164	237	249	66	48
	HAMILTON												
29012	BURLINGTON/WELLINGTON			53	5	9	13	21	42	83	108	20	13
	HAMILTON												
29017	CHATHAM/FRID			51	9	17	21	34	82	124	128	33	23
	HAMILTON												
29025	BARTON/WENTWORTH			81	9	14	22	45	99	184	268	42	26
	HAMILTON												
29067	450 HUGHSON ST N			54	4	6	10	18	32	78	116	16	11
	HAMILTON												
29102	467 BEACH BLVD			77	11	18	40	56	85	153	185	44	31
	HAMILTON												
29114	VICKERS RD/EAST 18TH ST			51	2	4	8	13	26	67	87	13	8
	HAMILTON												
31058	MOSLEY/LESLIE STS			322	3	7	10	14	27	46	65	13	9
	TORONTO												
31064	17 BERKSHIRE AV			80	1	4	6	11	23	52	53	10	6
	TORONTO												
31104	26 BREADALBANE			323	3	5	7	10	16	24	28	8	6
	TORONTO												
31120	PERTH/RUSKIN(JUNCTION TRIANGLE)			104	1	4	5	8	13	18	20	7	5
	TORONTO												
31126	969 EASTERN AV			90	3	5	7	10	18	50	58	10	7
	TORONTO												
32008	30 INDUSTRIAL ST (NUODEX)			192	4	6	8	11	19	64	91	11	8
	EAST YORK												
33003	LAWRENCE/KENNEDY			100	2	5	7	8	13	19	26	7	6
	SCARBORO												
34002	SC CTR, 770 DON MILLS RD			108	1	3	5	7	11	18	23	6	4
	NORTH YORK												
35003	ELMCREST RD (CENTENNIAL PK)			98	1	4	8	11	32	75	112	13	7
	ETO BICOKE												
35033	EVANS/ARNOLD AV			100	3	6	7	10	16	20	23	9	7
	ETO BICOKE												
35037	3050 LAKESHORE BLVD W			228	2	5	7	10	16	25	32	8	6
	ETO BICOKE												
44008	HWY2/NORTH SHORE BLVD E			117	2	4	6	9	15	24	27	7	6
	BURLINGTON												
44015	BRONTE RD/WOBURN CRES			119	1	4	6	8	13	23	24	7	5
	OAKVILLE												

TABLE A-29 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - IRON IN TOTAL SUSPENDED PARTICULATE	UNIT - .1 MICROGRAMS/CU.METRE									
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES 50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	2	4	6	9	14	20	25	7	5
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	2	4	6	9	17	36	46	8	6
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	2	5	7	8	13	23	25	8	6
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	2	4	6	10	15	36	39	9	6
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	1	1	3	4	7	13	13	4	3
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	1	1	3	4	8	20	21	4	3
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	3	5	10	17	31	38	40	13	10
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	2	5	7	11	20	43	54	10	7
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	12	19	39	55	120	220	243	56	37
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	1	5	6	12	23	56	64	11	6
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	3	8	12	19	43	98	118	20	12
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	1	1	5	7	12	19	21	6	4
75010	OPP STN NORTH BAY	45	1	1	3	5	10	27	35	5	3
77016	WATER TANK, ASH ST SUDBURY	47	1	4	6	8	21	61	63	10	6
77026	19 LISGAR ST SUDBURY	49	2	4	7	10	16	23	27	8	6
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	4	7	10	16	38	63	84	16	11

TABLE A-30 10-YEAR TREND FOR Fe

Annual geometric mean (ug/m<sup>3</sup>)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
BELLEVILLE	-	1.3	.5	.8	.4	.5	.6	.5	.4	-
BRAMALEA	.6	1.0	1.1	.9	.4	.6	1.1	.5	.8	.5
CHATHAM	1.1	1.4	.9	1.1	.8	.6	.7	.5	.6	.5
CORNWALL	-	.5	.3	.6	.3	.4	.4	.5	-	-
ETOBICOKE	1.1	1.3	1.5	-	1.1	.7	.7	.8	.8	.7
HAMILTON	-	2.9	2.9	2.6	2.3	2.5	2.2	2.3	1.9	2.8
LONDON	.9	1.3	1.4	1.0	.7	.5	.6	.6	.5	.4
MISSISSAUGA	1.1	1.0	1.2	1.2	1.2	.8	.9	.9	.8	.5
NORTH YORK	2.0	.8	.3	-	.4	.4	.4	.5	.5	.4
NORTH BAY	.7	1.2	.2	.6	.4	.5	.2	.3	.3	.1
OSHAWA	1.0	.9	.8	1.4	.4	.6	.5	.4	.7	.5
PICKERING	.4	1.1	1.0	-	.5	.5	.5	.6	.6	.5
S.S.MARIE	1.9	1.1	1.5	1.9	1.2	.5	.5	.7	1.2	.5
SCARBORO	-	.9	.8	-	.6	.5	.6	.7	.7	.5
SUDBURY	1.2	1.2	.6	.9	1.0	.7	.7	.5	.6	.5
THUNDER BAY	1.4	1.3	1.6	1.3	1.0	1.0	.9	1.2	.8	1.0
TORONTO	1.0	1.0	.8	.6	.9	.7	.8	.8	.7	.6
WINDSOR	2.7	2.5	1.7	1.2	1.4	1.2	1.1	1.1	1.0	1.0

TABLE A-31 MANGANESE (Mn) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE	TIMES ABOVE CRITERIA										
STATION NUMBER	LOCATION		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR		55	18	28	36	49	70	157	166	45	34	0
12005	7730 RIVERSIDE DR E WINDSOR		52	5	20	26	40	62	145	176	35	24	0
12008	467 UNIVERSITY AV W WINDSOR		313	18	33	48	68	127	250	500	64	47	0
12010	SEWAGE STN, HANNING RD WINDSOR		54	5	14	27	45	75	143	200	37	24	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR		60	24	42	79	130	380	940	1050	165	78	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR		53	22	48	71	98	146	213	230	81	64	0
12038	2885 HOWARD AV WINDSOR		56	19	37	51	73	120	219	285	63	49	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR		56	16	33	46	59	82	158	200	51	41	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR		52	18	24	30	43	55	186	380	41	31	0
12049	643 ALEXANDRINE WINDSOR		53	16	25	36	52	68	103	150	41	35	0
12051	604 CAPITOL/REMINGTON WINDSOR		30	11	27	46	64	76	112	120	46	35	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM		53	3	8	15	19	25	37	40	15	11	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT		340	3	3	8	13	23	42	123	11	7	0
14030	RR1 (W OF HOUSE) CORUNNA		53	3	3	8	12	23	38	54	10	7	0
14031	RR1 (W OF BARN) MOORETOWN		50	3	4	7	12	17	34	56	9	7	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA		57	3	11	15	24	46	117	180	23	14	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON		56	5	13	21	31	44	73	89	24	18	0
15009	LONGWOODS CONSERVATION AUTHORITY		114	3	4	4	11	20	50	71	10	7	0
15014	POND HILLS RD/DEVERON CRES LONDON		36	5	7	14	19	34	79	100	19	14	0
15015	951 COMMISSIONERS RD E LONDON		35	5	5	12	19	31	39	41	15	11	0
15016	801 COMMISSIONERS RD E LONDON		37	5	5	11	18	25	42	46	14	11	0
15017	8 MOUNTSFIELD DR LONDON		36	5	5	7	15	27	50	58	13	10	0
17022	182 WATER ST WINGHAM		20	10	16	29	53	111	318	400	56	29	0
18014	369 LEOPOLD ST WINGHAM		18	3	6	10	20	35	64	70	17	11	0
18015	TROWBRIDGE MEAFORD		36	9	10	20	30	40	95	104	25	19	0
26029	EDNA/FREDERICK STS KITCHENER		57	8	20	31	47	68	120	134	38	28	0

TABLE A-31 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986

POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE

UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99				
27037	NORTH/GENEVA ST ST CATHARINES	44	19	32	41	53	70	121	131	45	39	0
27059	188 EASTCHESTER AV ST CATHARINES	38	27	50	65	85	137	220	250	76	62	0
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	27	57	85	100	136	176	189	82	68	0
29001	HUGHSON/HUNTER HAMILTON	53	33	51	72	141	391	2068	2390	216	95	0
29011	BURLINGTON/LEEDS HAMILTON	56	200	262	427	521	894	1191	1230	465	388	0
29012	BURLINGTON/WELLINGTON HAMILTON	53	46	84	100	164	300	868	912	168	116	0
29017	CHATHAM/FRID HAMILTON	51	41	78	100	143	272	711	1080	144	105	0
29025	BARTON/WENTWORTH HAMILTON	81	60	88	145	270	769	1093	1190	275	175	0
29067	450 HUGHSON ST N HAMILTON	54	28	48	73	122	211	552	621	112	77	0
29102	467 BEACH BLVD HAMILTON	77	75	146	234	377	564	1139	1520	304	220	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	15	27	43	100	206	404	436	84	52	0
31058	MOSLEY/LESLIE STS TORONTO	322	5	25	38	52	86	151	170	44	32	0
31064	17 BERKSHIRE AV TORONTO	80	5	12	22	37	70	111	144	32	20	0
31104	26 BREADALBANE TORONTO	323	5	18	26	38	61	93	101	31	24	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	5	17	24	30	49	80	85	26	20	0
31126	969 EASTERN AV TORONTO	90	11	24	29	41	61	132	150	37	29	0
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	14	30	42	57	84	198	212	49	38	0
33003	LAWRENCE/KENNEDY SCARBORO	100	14	25	34	41	59	72	90	35	29	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	5	14	22	34	48	73	90	25	19	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	98	5	17	28	43	88	179	229	40	25	0
35033	EVANS/ARNOLD AV ETOBIKOKE	100	17	30	37	52	67	94	107	41	35	0
35037	3050 LAKESHORE BLVD W ETOBIKOKE	228	5	20	28	37	63	93	121	32	24	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	8	27	39	55	80	140	168	44	34	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	5	12	25	37	58	110	190	30	20	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	3	14	23	32	47	71	89	25	18	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	5	17	26	44	96	233	289	42	25	0

TABLE A-31 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH												RUN DATE
YEAR - 1986	POLLUTANT - MANGANESE IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGR/''S/CU.METRE										JUL 13, 1987
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99				
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	13	23	30	36	51	73	80	31	26	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	6	18	29	36	65	135	190	35	26	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	5	5	11	19	30	69	84	15	11	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	5	5	5	16	34	91	93	16	10	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	17	25	37	51	78	97	104	41	33	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	12	24	33	41	66	105	118	37	30	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	69	143	261	521	1101	1671	1870	434	236	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	14	22	38	66	143	260	272	63	40	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	24	50	84	131	346	787	1140	147	83	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	5	5	11	19	32	43	45	15	11	0
75010	OPP STN NORTH BAY	45	5	5	5	12	29	52	66	12	8	0
77016	WATER TANK, ASH ST SUDBURY	47	5	5	5	11	16	29	36	9	7	0
77026	19 LISGAR ST SUDBURY	49	5	5	5	13	20	47	47	12	9	0

TABLE A-32 NICKEL (Ni) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE										TIMES ABOVE CRITERIA 24-HR
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	1	1	1	7	11	40	150	7	2	0
12005	7730 RIVERSIDE DR E WINDSOR	52	1	1	1	4	7	17	23	3	2	0
12008	467 UNIVERSITY AV W WINDSOR	313	1	1	1	1	10	41	150	4	2	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	1	1	1	5	12	27	37	5	2	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	60	1	1	5	9	19	39	45	8	4	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	1	4	6	9	12	17	19	6	4	0
12038	2885 HOWARD AV WINDSOR	56	1	1	2	8	14	23	28	5	3	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	1	1	1	1	5	11	22	2	2	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	1	1	1	1	3	77	130	5	1	0
12049	643 ALEXANDRINE WINDSOR	53	1	1	1	1	5	10	11	2	1	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	1	1	1	1	2	10	15	2	1	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	1	1	1	1	1	4	6	1	1	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	1	1	1	1	6	33	41	3	2	0
14030	RR1 (W OF HOUSE) CORUNNA	53	1	1	1	1	7	24	32	3	2	0
14031	RR1 (W OF BARN) MOORETOWN	50	1	1	1	1	5	10	11	2	2	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	4	10	29	30	4	2	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	1	1	1	1	1	6	7	1	1	0
15009	LONGWOODS CONSERVATION AUTHORITY LONDON	114	1	1	1	1	1	7	58	2	1	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	1	1	1	1	1	1	1	1	1	0
15015	951 COMMISSIONERS RD E LONDON	35	1	1	1	1	1	14	19	2	1	0
15016	801 COMMISSIONERS RD E LONDON	37	1	1	1	1	1	11	15	2	1	0
15017	8 MOUNTSFIELD DR LONDON	36	1	1	1	1	1	1	1	1	1	0
26029	EDNA/FREDERICK STS KITCHENER	58	1	1	1	3	6	15	17	3	2	0
27037	NORTH/GENEVA ST ST CATHARINES	44	1	1	1	3	6	30	70	4	2	0
27047	DAVIS/FRAZER PORT COLBORNE	54	8	20	30	50	90	518	960	60	30	0
27059	188 EASTCHESTER AV ST CATHARINES	38	1	1	1	1	4	9	9	2	1	0

TABLE A-32 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

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YEAR - 1986	POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE									TIMES ABOVE CRITERIA		
STATION NUMBER	LOCATION	NO OF SAMPLES		10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	1	1	1	1	5	15	22	2	1	0	
29001	HUGHSON/HUNTER HAMILTON	53	1	1	1	2	11	26	28	4	2	0	
29011	BURLINGTON/LEEDS HAMILTON	56	1	1	1	3	9	16	24	4	2	0	
29012	BURLINGTON/WELLINGTON HAMILTON	53	1	1	1	1	6	19	21	2	2	0	
29017	CHATHAM/FRID HAMILTON	51	1	1	2	5	10	18	22	4	3	0	
29025	BARTON/WENTWORTH HAMILTON	81	1	1	1	4	14	30	42	4	2	0	
29067	450 HUGHSON ST N HAMILTON	54	1	3	5	7	9	16	20	5	4	0	
29102	467 BEACH BLVD HAMILTON	77	1	1	1	1	6	23	25	3	2	0	
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	1	1	5	9	24	141	154	13	5	0	
31058	MOSLEY/LESLIE STS TORONTO	322	2	2	2	2	2	8	13	2	2	0	
31064	17 BERKSHIRE AV TORONTO	80	2	2	2	2	2	3	6	2	2	0	
31104	26 BREADALBANE TORONTO	323	2	2	2	2	2	7	24	2	2	0	
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	2	2	2	2	5	12	24	3	2	0	
31126	969 EASTERN AV TORONTO	90	2	2	2	2	5	19	33	3	3	0	
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	2	2	2	2	79	868	1620	51	5	0	
33003	LAWRENCE/KENNEDY SCARBORO	100	2	2	2	2	2	6	6	2	2	0	
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	2	2	2	2	2	9	10	2	2	0	
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	98	2	2	2	2	4	9	81	3	2	0	
35033	EVANS/ARNOLD AV ETOBIKOKE	100	2	2	2	2	7	61	105	5	3	0	
35037	3050 LAKESHORE BLVD W ETOBIKOKE	228	2	2	2	18	135	584	952	43	7	0	
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	2	2	2	2	2	4	4	2	2	0	
44015	BRONTE RD/MOBURN CRES OAKVILLE	119	2	2	2	2	2	6	6	2	2	0	
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	1	1	1	1	1	1	2	1	1	0	
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	2	2	2	2	2	7	10	2	2	0	
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	2	2	2	8	11	21	24	6	4	0	
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	2	2	2	2	6	23	28	4	3	0	

TABLE A-32 (Cont.)

YEAR - 1986		POLLUTANT - NICKEL IN TOTAL SUSPENDED PARTICULATE		UNIT - .001 MICROGRAMS/CU.METRE							RUN DATE	
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES 50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	2	2	2	2	2	12	13	2	2	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	2	2	2	2	2	2	2	2	2	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	1	1	3	4	7	10	11	3	3	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	1	1	1	2	4	11	12	2	2	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	1	1	1	1	6	26	69	4	2	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	1	1	1	1	5	7	7	2	1	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	1	1	1	1	5	10	16	2	1	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	1	1	1	6	12	29	37	5	2	0
75010	OPP STN NORTH BAY	45	1	1	1	5	13	80	108	8	2	0
77016	WATER TANK, ASH ST SUDSBURY	47	8	28	53	97	327	653	734	113	49	0
77026	19 LISGAR ST SUDSBURY	49	21	31	43	80	164	364	409	77	51	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	43	80	156	300	1210	2234	2290	381	183	2

TABLE A-33 CHROMIUM (Cr) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

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YEAR - 1986	POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE										RUN DATE JUL 13, 1987	TIMES ABOVE CRITERIA 24-HR
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN		
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	4	4	4	13	20	43	45	10	7	0	0
12005	7730 RIVERSIDE DR E WINDSOR	52	4	4	4	4	12	17	20	6	5	0	0
12008	467 UNIVERSITY AV W WINDSOR	313	4	4	4	9	15	35	49	8	6	0	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	4	4	4	10	19	40	42	9	6	0	0
12013	FILTRAT PLT, 3665 MYANDOTTE ST E WINDSOR	60	4	5	12	22	27	53	60	16	12	0	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	4	4	10	15	25	43	47	12	9	0	0
12038	2885 HOWARD AV WINDSOR	56	2	5	10	16	20	42	45	12	9	0	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	4	4	4	12	19	35	39	10	7	0	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	2	3	3	6	9	16	19	5	4	0	0
12049	643 ALEXANDRINE WINDSOR	53	3	3	3	8	13	18	19	6	5	0	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	2	2	2	7	12	32	38	6	4	0	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	2	2	2	3	5	15	16	3	3	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	2	2	3	3	7	14	67	4	3	0	0
14030	RR1 (W OF HOUSE) CORUNNA	53	2	2	3	3	7	16	21	4	3	0	0
14031	RR1 (W OF BARN) MOORETOWN	50	2	3	3	6	10	22	24	6	4	0	0
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	57	3	3	3	3	11	22	23	5	4	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	4	4	4	4	6	31	36	6	5	0	0
15009	LONGWOODS CONSERVATION AUTHORITY	114	3	3	3	3	8	11	12	4	4	0	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	4	4	4	4	6	11	11	5	4	0	0
15015	951 COMMISSIONERS RD E LONDON	35	4	4	4	4	4	11	11	5	4	0	0
15016	801 COMMISSIONERS RD E LONDON	37	4	4	4	4	4	7	9	4	4	0	0
15017	8 MOUNTSFIELD DR LONDON	36	4	4	4	4	11	16	18	5	5	0	0
26029	EDNA/FREDERICK STS KITCHENER	58	3	4	4	8	10	17	19	6	5	0	0
27037	NORTH/GENEVA ST ST CATHARINES	44	2	2	3	4	9	22	31	5	4	0	0
27059	188 EASTCHESTER AV ST CATHARINES	38	4	4	4	9	14	18	20	7	6	0	0
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	3	3	4	8	11	21	31	6	5	0	0

TABLE A-33 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986

POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE

UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10	30	50	70	90	99				
29001	HUGHSON/HUNTER HAMILTON	53	3	4	4	7	15	74	84	10	6	0
29011	BURLINGTON/LEEDS HAMILTON	56	9	16	21	29	37	66	67	24	20	0
29012	BURLINGTON/WELLINGTON HAMILTON	53	3	4	4	9	15	21	23	7	6	0
29017	CHATHAM/FRID HAMILTON	51	4	5	9	12	23	34	35	11	9	0
29025	BARTON/WENTWORTH HAMILTON	81	4	4	10	20	40	72	86	16	10	0
29067	450 HUGHSON ST N HAMILTON	54	3	4	9	13	19	26	28	10	8	0
29102	467 BEACH BLVD HAMILTON	77	3	4	9	12	19	28	33	10	8	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	3	4	4	9	15	24	26	7	6	0
31058	MOSLEY/LESLIE STS TORONTO	322	4	4	4	9	16	25	30	7	6	0
31064	17 BERKSHIRE AV TORONTO	80	4	4	4	4	16	37	41	8	6	0
31104	26 BREADALBANE TORONTO	323	4	4	4	4	16	45	62	7	6	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	4	4	4	9	15	27	52	8	6	0
31126	969 EASTERN AV TORONTO	90	4	4	4	4	10	19	24	5	5	0
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	4	4	4	12	80	1087	1250	52	10	0
33003	LAWRENCE/KENNEDY SCARBORO	100	4	4	4	9	15	71	75	8	6	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	4	4	4	4	17	24	31	7	6	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	98	4	4	4	4	15	27	35	7	6	0
35033	EVANS/ARNOLD AV ETOBIKOKE	100	4	4	4	5	18	36	37	8	6	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	4	4	4	4	11	24	27	6	5	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	4	4	4	4	12	18	24	6	5	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	2	2	2	3	7	17	55	4	3	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	4	4	4	9	18	31	37	8	6	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	4	4	4	10	11	20	21	7	6	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	4	4	4	9	14	17	17	7	6	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	4	4	4	4	10	27	33	5	5	0
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	4	4	4	4	10	13	13	5	5	0

TABLE A-33 (Cont.)

YEAR - 1986		POLLUTANT - CHROMIUM IN TOTAL SUSPENDED PARTICULATE		UNIT - .001 MICROGRAMS/CU.METRE		RUN DATE						
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	3	3	7	7	10	18	20	6	5	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	2	3	5	5	8	10	10	5	4	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	4	9	12	14	23	33	35	13	11	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	4	4	6	12	13	17	18	8	7	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	4	4	4	9	14	23	30	7	6	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	4	4	4	6	12	16	16	6	5	0
75010	OPP STN NORTH BAY	45	4	4	4	4	12	23	23	6	5	0
77016	WATER TANK, ASH ST SUDBURY	47	4	4	4	4	9	12	12	5	5	0
77026	19 LISGAR ST SUDBURY	49	4	4	4	4	12	17	18	6	5	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	4	4	4	9	16	23	25	7	6	0

TABLE A-34 CADMIUM (Cd) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE									TIMES ABOVE CRITERIA	
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	1	1	1	2	4	11	12	2	1	0
12005	7730 RIVERSIDE DR E WINDSOR	52	1	1	1	1	3	8	9	1	0	0
12008	467 UNIVERSITY AV W WINDSOR	313	1	1	1	3	8	16	23	3	1	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	1	1	1	2	5	9	11	2	1	0
12013	FILTRAT PLT,3665 MYANDOTTE ST E WINDSOR	60	1	1	2	3	5	12	13	2	1	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	1	1	1	3	7	12	13	3	1	0
12038	2885 HOWARD AV WINDSOR	56	1	1	1	1	3	10	17	2	1	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	1	1	1	2	4	13	23	2	1	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	1	1	1	2	3	11	17	2	1	0
12049	643 ALEXANDRINE WINDSOR	53	1	1	1	1	4	12	20	1	1	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	1	1	1	2	3	13	18	2	1	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	1	1	1	1	2	3	4	0	0	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	1	1	1	1	2	3	6	1	0	0
14030	RRI (W OF HOUSE) CORUNNA	53	1	1	1	1	1	2	3	0	0	0
14031	RRI (W OF BARN) MOORETOWN	50	1	1	1	1	1	2	3	0	0	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	1	1	1	1	1	1	2	0	0	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	1	1	1	1	3	5	6	1	0	0
15009	LONGWOODS CONSERVATION AUTHORITY	114	1	1	1	1	2	2	4	0	0	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	1	1	1	1	1	2	2	0	0	0
15015	951 COMMISSIONERS RD E LONDON	35	1	1	1	1	1	3	3	0	0	0
15016	801 COMMISSIONERS RD E LONDON	37	1	1	1	1	1	3	3	0	0	0
15017	8 MOUNTSFIELD DR LONDON	36	1	1	1	1	1	4	5	0	0	0
26029	EDNA/FREDERICK STS KITCHENER	57	1	1	1	1	1	2	2	0	0	0
27037	NORTH/GENEVA ST ST CATHARINES	44	1	1	1	1	1	1	1	0	0	0
27059	188 EASTCHESTER AV ST CATHARINES	38	1	1	1	1	1	2	2	0	0	0
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	1	1	1	1	2	3	3	1	0	0

TABLE A-34 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

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STATION NUMBER	LOCATION	YEAR - 1986	POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE		UNIT - .001 MICROGRAMS/CU.METRE							TIMES ABOVE CRITERIA 24-HR	
			NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	
29001	HUGHSON/HUNTER HAMILTON		53	1	1	1	1	2	7	17	1	0	0
29011	BURLINGTON/LEEDS HAMILTON		56	1	1	1	1	2	4	4	1	1	0
29012	BURLINGTON/WELLINGTON HAMILTON		53	1	1	1	1	1	2	3	0	0	0
29017	CHATHAM/FRID HAMILTON		51	1	1	1	1	2	2	2	1	0	0
29025	BARTON/WENTWORTH HAMILTON		81	1	1	1	2	3	5	6	1	1	0
29067	450 HUGHSON ST N HAMILTON		54	1	1	1	1	3	3	3	1	1	0
29102	467 BEACH BLVD HAMILTON		80	1	1	1	1	1	3	4	6	1	1
29114	VICKERS RD/EAST 18TH ST HAMILTON		51	1	1	1	2	3	4	5	1	1	0
31058	MOSLEY/LESLIE STS TORONTO		322	1	1	1	3	6	26	47	3	1	0
31064	17 BERKSHIRE AV TORONTO		80	1	1	1	1	1	2	6	10	1	0
31104	26 BREADALBANE TORONTO		323	1	1	1	1	1	4	6	9	1	1
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO		104	1	1	1	1	1	2	6	9	1	0
31126	969 EASTERN AV TORONTO		90	1	2	3	3	3	4	9	15	3	2
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK		192	1	1	1	1	1	2	6	12	1	0
33003	LAWRENCE/KENNEDY SCARBORO		100	1	1	1	1	1	2	3	3	0	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK		108	1	1	1	1	1	1	5	15	1	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE		98	1	1	1	1	1	1	5	22	1	0
35033	EVANS/ARNOLD AV ETOBIKOKE		100	1	1	1	1	1	1	6	7	1	0
35037	3050 LAKESHORE BLVD W ETOBIKOKE		228	1	1	3	9	53	218	685	20	3	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON		117	1	1	1	1	3	3	4	1	0	0
44015	BRONTE RD/WOBURN CRES OAKVILLE		119	1	3	4	8	17	35	74	7	4	0
45001	FIRE HALL, BAYLY/BROCK PICKERING		258	1	1	1	1	1	1	2	4	0	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA		107	1	1	1	1	1	1	2	2	0	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA		27	1	1	1	1	1	1	2	2	0	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA		44	1	1	1	1	1	2	4	4	1	0
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE		86	1	1	1	1	1	1	2	3	0	0

TABLE A-34 (Cont.)

YEAR - 1986		POLLUTANT - CADMIUM IN TOTAL SUSPENDED PARTICULATE		UNIT - .001 MICROGRAMS/CU.METRE		RUN DATE	
STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES	ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR	
			10 30 50 70 90 99	MAX			
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	1 1 1 1 1 3	3	0	0	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	1 1 1 1 1 1	1	1	0	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	1 1 1 1 1 1	1	1	0	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	1 1 1 1 1 1	2	0	0	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	1 1 1 1 1 1	2	0	0	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	1 1 1 1 1 2	2	0	0	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	1 1 1 1 1 2	2	0	0	0
75010	OPP STN NORTH BAY	45	1 1 1 1 1 3	3	0	0	0
77016	WATER TANK, ASH ST SUDBURY	47	1 1 1 1 3 11	12	1	0	0
77026	19 LISGAR ST SUDBURY	49	1 1 1 1 2 5	6	1	0	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	1 1 1 1 1 16	58	62	5	1

TABLE A-35 VANADIUM (V) STATISTICS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986	POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE	UNIT - .001 MICROGRAMS/CU.METRE	TIMES ABOVE CRITERIA									
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	24-HR
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	4	4	4	4	13	32	36	7	6	0
12005	7730 RIVERSIDE DR E WINDSOR	52	4	4	4	4	14	33	37	7	5	0
12008	467 UNIVERSITY AV W WINDSOR	313	4	4	4	4	18	51	66	8	6	0
12010	SEWAGE STN, HANNING RD WINDSOR	54	4	4	4	10	16	27	29	8	7	0
12013	FILTRAT PLT,3665 WYANDOTTE ST E WINDSOR	60	4	4	4	9	16	28	29	7	6	0
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	4	4	4	9	13	18	19	7	6	0
12038	2885 HOWARD AV WINDSOR	56	2	3	3	3	8	14	20	4	3	0
12039	DOUGLAS ST/E.C. ROW W WINDSOR	57	4	4	4	4	12	32	48	7	5	0
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	2	3	3	5	10	16	16	5	4	0
12049	643 ALEXANDRINE WINDSOR	53	3	3	7	8	15	28	31	7	6	0
12051	604 CAPITOL/REMINGTON WINDSOR	30	2	3	6	8	12	19	21	7	5	0
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	2	2	3	3	9	20	23	4	3	0
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	340	2	3	3	9	30	98	120	12	6	0
14030	RR1 (W OF HOUSE) CORUNNA	53	2	2	3	6	13	25	32	6	4	0
14031	RR1 (W OF BARN) MOORETOWN	50	2	3	3	6	14	57	129	8	4	0
14064	CENTENNIAL PK,FRONT ST/CN TRACKS SARNIA	57	3	3	7	12	37	89	89	14	8	0
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	4	4	4	6	18	28	35	8	6	0
15009	LONGWOODS CONSERVATION AUTHORITY	114	3	3	3	3	12	39	47	6	4	0
15014	POND MILLS RD/DEVERON CRES LONDON	36	4	4	4	4	12	19	20	6	5	0
15015	951 COMMISSIONERS RD E LONDON	35	4	4	4	4	4	7	9	4	4	0
15016	801 COMMISSIONERS RD E LONDON	37	4	4	4	4	10	16	17	5	5	0
15017	8 MOUNTSFIELD DR LONDON	36	4	4	4	4	14	41	47	8	6	0
26029	EDNA/FREDERICK STS KITCHENER	58	3	4	4	4	7	15	24	26	7	5
27037	NORTH/GENEVA ST ST CATHARINES	44	2	3	4	8	13	65	87	9	5	0
27059	188 EASTCHESTER AV ST CATHARINES	38	3	4	4	4	12	42	56	7	5	0
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	3	4	7	10	19	35	36	9	7	0

TABLE A-35 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

STATION NUMBER	LOCATION	POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE						UNIT - .001 MICROGRAMS/CU.METRE			TIMES ABOVE CRITERIA 24-HR	
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN	
29001	HUGHSON/HUNTER HAMILTON	53	3	4	5	11	28	65	73	12	8	0
29011	BURLINGTON/LEEDS HAMILTON	56	4	8	11	18	28	40	41	14	11	0
29012	BURLINGTON/WELLINGTON HAMILTON	53	3	4	4	13	21	55	60	12	7	0
29017	CHATHAM/FRID HAMILTON	51	3	4	7	15	80	130	140	22	9	0
29025	BARTON/WENTWORTH HAMILTON	81	4	4	5	14	23	42	47	11	8	0
29067	450 HUGHSON ST N HAMILTON	54	3	4	4	7	16	21	22	7	6	0
29102	467 BEACH BLVD HAMILTON	77	4	4	9	13	22	43	50	11	8	0
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	3	4	4	8	13	21	22	7	5	0
31058	MOSLEY/LESLIE STS TORONTO	322	4	4	4	4	15	32	75	7	6	0
31064	17 BERKSHIRE AV TORONTO	80	4	4	4	4	11	20	21	5	5	0
31104	26 BREADALBANE TORONTO	323	4	4	4	4	13	30	46	6	5	0
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	4	4	4	4	14	32	36	7	6	0
31126	969 EASTERN AV TORONTO	90	4	4	4	4	4	4	4	4	4	0
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	4	4	4	4	13	23	30	6	5	0
33003	LAWRENCE/KENNEDY SCARBORO	100	4	4	4	4	11	18	22	6	5	0
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	4	4	4	4	11	20	22	6	5	0
35003	ELMCREST RD (CENTENNIAL PK) ETOBIKOKE	97	4	4	4	4	14	35	89	8	6	0
35033	EVANS/ARNOLD AV ETOBIKOKE	100	4	4	4	4	13	28	32	6	5	0
35037	3050 LAKESHORE BLVD W ETOBIKOKE	228	4	4	4	4	11	16	21	6	5	0
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	4	4	4	4	13	16	17	6	5	0
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	4	4	4	4	14	21	28	7	6	0
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	2	2	3	3	9	15	22	4	3	0
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	4	4	4	4	13	23	26	6	5	0
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	4	4	4	4	15	22	23	7	6	0
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	4	4	4	11	16	36	42	9	7	0
47042	ARNOURY BLDG, PARK/PARKSIDE ST BARRIE	86	4	4	4	4	12	22	22	6	5	0

TABLE A-35 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986

POLLUTANT - VANADIUM IN TOTAL SUSPENDED PARTICULATE

UNIT - .001 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES					ARITH MEAN	GEOM MEAN	TIMES ABOVE CRITERIA 24-HR		
			10	30	50	70	90					
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	4	4	4	4	4	23	38	5	4	0
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	2	3	3	7	7	12	16	5	4	0
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	2	3	5	6	9	13	15	5	4	0
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	4	4	6	14	19	29	33	10	8	0
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	4	4	4	4	12	42	93	8	6	0
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	4	4	4	10	27	133	140	16	7	0
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	4	4	4	4	14	47	56	7	5	0
75010	OPP STN NORTH BAY	45	4	4	4	4	4	10	10	4	4	0
77016	WATER TANK, ASH ST SUDBURY	47	4	4	4	4	10	22	31	6	5	0
77026	19 LISGAR ST SUDBURY	49	4	4	4	4	10	13	13	5	5	0
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	4	4	4	4	9	15	16	5	5	0

TABLE A-36 MAXIMUM MONITORED LEVELS FOR TRACE METALS (1986)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
MAR 31, 1987

YEAR - 1986	POLLUTANTS - CHROMIUM IN TSP COBALT IN TSP VANADIUM IN TSP COPPER IN TSP	UNIT - .001 UG/M3 UNIT - .01 UG/M3 UNIT - .001 UG/M3 UNIT - .01 UG/M3	NICKEL IN TSP IRON IN TSP CADMIUM IN TSP MANGANESE IN TSP	UNIT - .001 UG/M3 UNIT - .1 UG/M3 UNIT - .001 UG/M3 UNIT - .001 UG/M3	NO OF SAMPLES	CR MAX	CO MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	MN MAX
12002	CITY HALL, 444 WINDSOR AV WINDSOR				55	45	1	36	86	38	150	12	166
12005	7730 RIVERSIDE DR E WINDSOR				52	20	1	37	19	29	23	9	176
12007	WRIGHT/WATER ST WINDSOR				33	N/A	N/A	N/A	N/A	59	N/A	N/A	N/A
12008	467 UNIVERSITY AV W WINDSOR				313	49	1	66	79	170	150	23	500
12010	SEWAGE STN, HANNING RD WINDSOR				54	42	1	29	99	42	37	11	200
12013	FILTRAT PLT, 3665 WYANDOTTE ST E WINDSOR				60	60	1	29	100	155	45	13	1050
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR				53	47	1	19	69	64	19	13	230
12016	COLLEGE/SOUTH ST WINDSOR				76	N/A	N/A	N/A	N/A	104	N/A	N/A	N/A
12038	2885 HOWARD AV WINDSOR				56	45	0	20	50	345	28	17	205
12039	DOUGLAS ST/E.C ROW W WINDSOR				58	39	0	48	83	87	22	23	200
12047	DORWIN PLAZA, DOUGALL AV WINDSOR				52	19	0	16	110	54	130	17	380
12049	643 ALEXANDRINE WINDSOR				53	19	0	31	49	44	11	20	150
12051	604 CAPITOL/REMINGTON WINDSOR				53	38	0	21	N/A	65	15	18	120
13003	POST OFFICE, 10 CENTRE ST CHATHAM				53	16	0	23	68	20	6	4	40
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT				340	67	0	120	82	20	41	6	123
14030	RR1 (W OF HOUSE) CORUNNA				53	21	1	32	26	14	32	3	54
14031	RR1 (W OF BARN) MOORETOWN				50	24	0	129	16	11	11	3	36
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA				57	23	1	89	64	15	30	2	180
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON				56	36	2	35	38	22	7	6	89
15009	LONGWOODS CONSERVATION AUTHORITY				114	12	1	47	304	24	58	4	71
15014	POND MILLS RD/DEVERON CRES LONDON				114	11	N/A	20	121	25	1	2	100
15015	951 COMMISSIONERS RD. E LONDON				36	11	N/A	9	8	16	19	3	41
15016	801 COMMISSIONERS RD. E LONDON				35	9	N/A	17	47	14	15	3	46
15017	8 MOUNTSFIELD DR. LONDON				37	18	N/A	47	32	17	1	5	48

TABLE A-36 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
MAR 31,1987

84

YEAR - 1986	POLLUTANTS - CHROMIUM IN TSP COBALT IN TSP VANADIUM IN TSP COPPER IN TSP	UNIT - .001 UG/M3 UNIT - .01 UG/M3 UNIT - .001 UG/M3 UNIT - .01 UG/M3	NICKEL IN TSP IRON IN TSP CADMIUM IN TSP MANGANESE IN TSP	UNIT - .001 UG/M3 UNIT - .1 UG/M3 UNIT - .001 UG/M3 UNIT - .001 UG/M3						
STATION NUMBER	LOCATION	NO OF SAMPLES	CR MAX	CO MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	MN MAX
17022	182 WATER ST WINGHAM	36	N/A	N/A	N/A	N/A	24	N/A	N/A	400
18014	369 LEOPOLD ST WINGHAM	20	N/A	N/A	N/A	N/A	12	N/A	N/A	70
18015	TROWBRIDGE MEAFORD	18	N/A	N/A	N/A	N/A	65	N/A	N/A	104
26029	EDNA/FREDERICK STS KITCHENER	57	19	1	26	97	24	17	2	134
27037	NORTH/GENEVA ST ST CATHARINES	44	31	1	87	52	21	70	1	131
27047	DAVIS/FRAZER PORT COLBORNE	54	N/A	N/A	N/A	N/A	960	N/A	N/A	N/A
27059	188 EASTCHESTER AV ST CATHARINES	38	20	N/A	56	36	51	9	2	250
27060	PETRIE ST/DUNKIRK RD ST CATHARINES	45	31	N/A	36	21	36	22	3	189
29001	HUGHSON/HUNTER HAMILTON	52	84	1	73	57	380	28	17	2390
29011	BURLINGTON/LEEDS HAMILTON	55	67	1	41	38	249	24	4	1230
29012	BURLINGTON/WELLINGTON HAMILTON	52	23	1	60	40	108	21	3	912
29017	CHATHAM/FRID HAMILTON	50	35	2	140	64	128	22	2	1080
29025	BARTON/WENTWORTH HAMILTON	78	86	1	47	42	268	42	6	1190
29067	450 HUGHSON ST N HAMILTON	53	28	1	22	20	116	20	3	621
29102	467 BEACH BLVD HAMILTON	77	33	1	50	55	185	25	6	1520
29114	VICKERS RD/EAST 18TH ST HAMILTON	50	26	1	22	22	87	154	5	436
31058	MOSLEY/LESLIE STS TORONTO	322	30	1	75	50	65	13	47	170
31064	17 BERKSHIRE AV TORONTO	80	41	1	21	58	53	6	10	144
31104	26 BREADALBANE TORONTO	323	62	1	46	157	28	24	9	101
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	52	0	36	95	20	24	9	85
31126	969 EASTERN AVE. TORONTO	90	24	0	4	22	58	33	15	150
32008	30 INDUSTRIAL ST (NUODEX) EAST YORK	192	1250	3	30	135	91	1620	12	212
33003	LAWRENCE/KENNEDY SCARBORO	100	75	2	22	52	26	6	3	90
34002	SC CTR, 770 DON MILLS RD NORTH YORK	108	31	1	22	58	23	10	15	90

TABLE A-36 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
MAR 31,1987

YEAR - 1986	POLLUTANTS - CHROMIUM IN TSP	UNIT - .001 UG/M3	NICKEL IN TSP	UNIT - .001 UG/M3
	COBALT IN TSP	UNIT - .01 UG/M3	IRON IN TSP	UNIT - .1 UG/M3
	VANADIUM IN TSP	UNIT - .001 UG/M3	CADMIUM IN TSP	UNIT - .001 UG/M3
	COPPER IN TSP	UNIT - .01 UG/M3	MANGANESE IN TSP	UNIT - .001 UG/M3

STATION NUMBER	LOCATION	NO OF SAMPLES	CR MAX	CO MAX	VV MAX	CU MAX	FE MAX	NI MAX	CD MAX	MN MAX
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	98	35	1	89	181	112	81	22	229
35033	EVANS/ARNOLD AV ETOBICOKE	100	37	1	32	27	23	105	7	107
35037	3050 LAKESHORE BLVD W ETOBICOKE	228	N/A	1	21	415	32	952	685	121
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	27	1	17	20	27	4	4	168
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	24	1	28	44	24	6	74	190
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	55	0	22	57	25	2	4	89
45011	PUB LIBRARY, 65 BAGOT ST/SIMCOE OSHAWA	107	37	0	26	47	46	10	2	289
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	21	0	23	20	25	24	2	80
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	17	1	42	53	39	28	4	190
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	33	0	22	39	13	13	3	84
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	13	0	38	31	21	2	3	93
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	20	0	16	52	40	11	1	104
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	10	0	15	102	54	12	1	118
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	35	1	33	28	243	69	2	1870
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	48	18	0	93	83	64	7	2	272
71066	FARWELL PUMPHOUSE SAULT STE MARIE	73	30	1	140	23	118	16	2	1140
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	16	0	56	12	21	27	2	45
75010	OPP STN NORTH BAY	45	23	1	10	33	35	108	3	66
77016	WATER TANK, ASH ST SUDBURY	47	12	3	31	140	63	734	12	36
77026	19 LISGAR ST SUDBURY	49	18	1	13	96	27	409	6	47
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	51	25	6	16	986	84	2290	62	N/A

TABLE A-37 NITRATE (NO<sub>3</sub>) STATISTICS (1986)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986 STATION NUMBER	POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE LOCATION	NO OF SAMPLES	UNIT - .1 MICROGRAMS/CU.METRE						ARITH MEAN	GEOM MEAN	
			10	30	50	70	90	99			
10015	PUC BLDG, 64 WEST ST GODERICH	59	4	14	26	41	71	119	143	34	20
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	14	29	46	54	77	122	123	45	29
12005	7730 RIVERSIDE DR E WINDSOR	52	9	25	40	58	79	109	123	43	24
12008	467 UNIVERSITY AV W WINDSOR	313	18	33	49	70	107	189	239	57	43
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	12	23	34	49	62	118	131	38	31
12010	SEWAGE STN, HANNING RD WINDSOR	54	17	26	41	53	71	121	129	44	38
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	23	31	46	59	84	119	122	49	40
12038	2885 HOWARD AV WINDSOR	56	13	21	28	42	68	107	114	36	30
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	22	30	38	51	83	124	143	47	38
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	16	26	31	47	64	96	101	39	34
12049	643 ALEXANDRINE WINDSOR	53	18	24	31	45	66	141	146	40	33
12051	604 CAPITOL/REMINGTON WINDSOR	30	17	23	27	33	62	130	134	36	29
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	18	27	36	48	71	124	130	41	35
14016	HWY40 (OPP LAMBTON GS) COURTRIGHT	339	11	20	30	45	66	108	186	36	28
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	58	9	19	26	41	76	102	107	36	27
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	13	25	39	56	87	143	146	48	36
15003	362 DUNDAS ST LONDON	55	11	23	43	59	87	148	160	48	37
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	35	14	19	29	37	46	66	69	30	25
26029	EDNA/FREDERICK STS KITCHENER	57	11	22	34	63	94	126	128	45	33
27037	NORTH/GENEVA ST ST CATHARINES	44	15	25	38	59	73	107	117	43	35
27056	ALLENDALE AV NIAGARA FALLS	53	16	22	31	49	80	131	133	41	31
28028	EXHIBITION ST/CLARK ST GUELPH	50	11	23	36	63	84	125	153	45	34
29001	HUGHSON/HUNTER HAMILTON	53	13	30	49	76	134	244	372	65	45
29011	BURLINGTON/LEEDS HAMILTON	56	16	26	45	69	99	224	364	57	42
29012	BURLINGTON/WELLINGTON HAMILTON	53	13	28	41	74	104	204	349	56	40
29017	CHATHAM/FRID HAMILTON	51	12	21	43	66	94	109	115	49	37

TABLE A-37 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

STATION NUMBER	LOCATION	POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE						UNIT - .1 MICROGRAMS/CU.METRE			
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
29025	BARTON/WENTWORTH HAMILTON	85	15	29	42	63	107	229	335	55	39
29087	405 CUMBERLAND AV HAMILTON	55	9	24	39	58	85	221	424	51	34
29102	467 BEACH BLVD HAMILTON	81	10	27	42	63	101	164	188	51	37
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	11	20	33	51	87	138	152	41	29
31104	26 BREADALBANE TORONTO	322	12	26	41	67	93	148	200	50	34
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	13	23	34	59	80	159	290	45	34
33003	LAWRENCE/KENNEDY SCARBORO	100	10	25	37	51	80	130	150	42	31
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	70	11	20	33	53	73	139	147	40	30
34002	SC CTR, 770 DON MILLS RD NORTH YORK	107	9	19	34	50	79	141	148	40	27
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	97	9	24	37	57	99	191	194	48	35
35005	QUEENSWAY HOSPITAL ETOBICOKE	106	15	24	36	55	90	114	162	45	36
35033	EVANS/ARNOLD AV ETOBICOKE	100	15	24	40	66	87	137	172	48	38
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	15	26	39	56	89	127	258	48	38
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	13	20	31	47	81	102	182	39	31
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	6	16	29	43	77	124	161	35	22
45025	PS, RITSON RD/OLIVE AV OSHAWA	108	9	23	37	52	79	116	150	42	30
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	11	21	29	46	70	120	134	39	30
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	13	26	41	55	90	138	151	48	37
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	109	12	23	34	49	80	121	132	41	31
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	56	3	13	20	39	62	111	115	30	16
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	5	12	26	37	65	154	181	32	19
48002	HWY47/E OF HWY48 STOUFFVILLE	103	6	16	30	49	79	138	169	37	21
58027	51 SHUTER ST PORT HOPE	87	4	15	22	35	51	81	106	28	17
58041	FILT PLT, MARSH ST PORT HOPE	89	6	16	22	34	52	108	110	28	18
58042	CAN TIRE, QUEEN ST PORT HOPE	76	5	12	20	32	41	57	65	22	16
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	5	11	20	29	51	75	84	24	16

TABLE A-37 (Cont.)

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH											RUN DATE	
YEAR - 1986	POLLUTANT - NITRATE IN TOTAL SUSPENDED PARTICULATE				UNIT - .1 MICROGRAMS/CU.METRE				JUL 13, 1987			
STATION NUMBER	LOCATION	NO OF SAMPLES	10	30	PERCENTILES	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	3	7	11	16	34	53	59	15	9	
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	2	5	7	10	23	44	52	10	7	
63040	435 JAMES ST S THUNDER BAY	49	2	5	8	11	20	35	40	10	7	
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	1	3	8	14	31	61	69	13	6	
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	47	4	6	9	15	31	54	57	14	9	
71066	FARWELL PUMPHOUSE SAULT STE MARIE	72	4	6	13	17	43	56	57	16	10	
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	1	3	6	10	14	23	23	7	4	
75010	OPP STN NORTH BAY	45	3	6	9	17	28	48	51	14	9	
77016	WATER TANK, ASH ST SUDBURY	47	1	6	7	13	17	50	51	11	6	
77026	19 LISGAR ST SUDBURY	49	1	4	11	14	33	49	49	13	6	
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	50	1	4	6	14	26	35	40	10	5	

TABLE A-38 10-YEAR TREND FOR NO<sub>3</sub><sup>-</sup>Annual geometric mean (ug/m<sup>3</sup>)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
BELLEVILLE	1.2	2.3	3.3	2.6	2.0	2.5	2.9	2.7	3.2	-
BRAMALEA	2.1	2.9	3.8	2.9	3.0	4.3	3.8	3.8	3.6	3.7
CHATHAM	4.2	4.2	5.2	5.3	4.6	3.7	3.1	3.5	3.5	3.5
CORNWALL	1.0	2.0	2.5	2.1	2.4	2.2	2.3	2.4	-	-
ETOBICOKE	2.4	4.3	4.1	4.6	4.9	4.9	3.3	3.7	3.0	3.8
HAMILTON	2.5	4.1	4.0	3.8	3.4	3.7	3.7	3.8	3.5	3.8
LONDON	2.4	3.9	4.9	4.5	3.5	3.6	3.3	3.6	3.3	3.6
MISSISSAUGA	2.3	3.3	3.6	3.1	3.5	4.0	4.1	3.8	3.5	3.0
NORTH BAY	.9	3.1	2.0	1.4	1.2	1.2	1.2	1.1	1.0	.9
NORTH YORK	2.0	3.4	4.4	3.3	3.1	3.2	3.1	3.3	3.1	2.7
PICKERING	1.9	3.5	3.1	2.5	2.7	2.7	2.0	2.4	2.4	2.2
SCARBORO	2.1	3.1	3.6	3.4	3.0	3.3	3.2	3.6	3.2	3.1
SUDBURY	.6	1.0	1.0	1.2	1.6	1.1	1.3	.9	.8	.6
THUNDER BAY	1.0	1.0	.7	1.2	1.5	1.2	.7	.9	.8	.9
TORONTO	2.7	3.8	4.2	3.7	3.7	3.8	3.6	3.5	3.5	3.4
WINDSOR	3.9	5.3	5.7	5.5	5.8	4.4	4.1	3.5	3.9	2.9

TABLE A-39 SULPHATE (SO<sub>4</sub><sup>2-</sup>) STATISTICS (1986)

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ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986 STATION NUMBER	POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE LOCATION	NO OF SAMPLES	UNIT - .1 MICROGRAMS/CU.METRE						ARITH MEAN	GEOM MEAN	
			10	30	50	70	90	99			
10015	PUC BLDG, 64 WEST ST GODERICH	59	31	57	80	96	117	143	152	77	65
12002	CITY HALL, 444 WINDSOR AV WINDSOR	55	65	83	106	126	168	281	314	114	105
12005	7730 RIVERSIDE DR E WINDSOR	52	60	76	88	117	153	245	260	101	84
12008	467 UNIVERSITY AV W WINDSOR	313	57	83	106	135	214	396	443	121	104
12009	9725 RIVERSIDE DR E LITTLE RIVER	56	37	60	81	98	125	260	307	85	75
12010	SEWAGE STN, HANNING RD WINDSOR	54	54	73	97	114	179	293	337	104	89
12015	SEWAGE STN, HWY 18/PROSPECT WINDSOR	53	57	94	111	138	172	223	272	116	107
12038	2885 HOWARD AV WINDSOR	56	37	55	70	79	114	204	252	75	67
12039	DOUGLAS ST/E.C. ROW W WINDSOR	58	56	73	96	110	149	265	277	99	92
12047	DORWIN PLAZA, DOUGALL AV WINDSOR	52	44	57	76	84	114	186	254	78	71
12049	643 ALEXANDRINE WINDSOR	53	42	60	70	87	122	194	243	80	73
12051	604 CAPITOL/REMINGTON WINDSOR	30	38	54	74	85	119	165	170	75	68
13003	POST OFFICE, 10 CENTRE ST CHATHAM	53	39	51	64	76	129	172	191	72	66
14016	HWY40 (OPP LAMBERT GS) COURTRIGHT	339	41	56	70	89	127	186	211	78	71
14064	CENTENNIAL PK, FRONT ST/CN TRACKS SARNIA	58	37	59	69	86	140	229	238	82	70
15001	WRN FAIR GROUNDS, KING/RECTORY LONDON	56	38	66	76	93	127	190	223	83	75
15003	362 DUNDAS ST LONDON	55	39	66	83	99	127	183	187	86	77
22904	WALPOLE S PS, SANDUSK RD NANTICOKE	35	42	55	77	99	125	278	362	88	77
26029	EDNA/FREDERICK STS KITCHENER	57	48	63	85	96	117	179	192	83	76
27037	NORTH/GENEVA ST ST CATHARINES	44	49	65	78	91	123	295	389	90	80
27056	ALLENDALE AV NIAGARA FALLS	53	42	63	78	98	139	271	366	90	79
28028	EXHIBITION ST/CLARK ST GUELPH	50	39	58	82	89	126	215	254	81	72
29001	HUGHSON/HUNTER HAMILTON	53	64	84	111	133	221	452	500	131	113
29011	BURLINGTON/LEEDS HAMILTON	56	81	100	123	144	202	332	434	136	125
29012	BURLINGTON/WELLINGTON HAMILTON	53	60	79	91	110	159	315	400	108	97
29017	CHATHAM/FRID HAMILTON	51	60	79	103	112	136	294	440	106	96

TABLE A-39 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

STATION NUMBER	LOCATION	POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE						UNIT - .1 MICROGRAMS/CU.METRE			
		NO OF SAMPLES	10	30	50	70	90	99	MAX	ARITH MEAN	GEOM MEAN
29025	BARTON/WENTWORTH HAMILTON	85	73	96	114	130	198	245	251	123	115
29087	405 CUMBERLAND AV HAMILTON	55	51	83	91	107	149	321	389	104	93
29102	467 BEACH BLVD HAMILTON	81	59	88	118	160	183	335	397	127	104
29114	VICKERS RD/EAST 18TH ST HAMILTON	51	39	61	83	106	131	342	374	95	82
31104	26 BREADALBANE TORONTO	322	52	72	84	104	143	209	387	92	80
31120	PERTH/RUSKIN(JUNCTION TRIANGLE) TORONTO	104	45	61	75	96	131	218	320	86	77
33003	LAWRENCE/KENNEDY SCARBORO	100	45	63	76	93	122	176	320	84	77
33019	REDLAND CR (SCARB BLUFFS) SCARBORO	70	44	60	72	94	130	239	379	84	72
34002	SC CTR, 770 DON MILLS RD NORTH YORK	107	43	55	73	90	125	252	318	82	73
35003	ELMCREST RD (CENTENNIAL PK) ETOBICOKE	97	51	64	82	108	146	193	306	92	83
35005	QUEENSWAY HOSPITAL ETOBICOKE	106	47	64	82	98	131	272	338	89	81
35033	EVANS/ARNOLD AV ETOBICOKE	100	58	70	85	105	131	199	350	94	87
44008	HWY2/NORTH SHORE BLVD E BURLINGTON	117	55	70	89	106	146	251	393	97	89
44015	BRONTE RD/WOBURN CRES OAKVILLE	119	50	67	82	102	130	224	294	90	83
45001	FIRE HALL, BAYLY/BROCK PICKERING	258	30	42	56	76	116	189	363	66	57
45025	PS, RITSON RD/OLIVE AV OSHAWA	108	51	66	81	99	132	218	320	88	81
46025	PUB LIBRARY, 110 DUNDAS W MISSISSAUGA	27	46	61	67	86	105	127	130	74	71
46033	FIRE HALL, BRAMALEA RD BRAMALEA	44	51	70	82	109	162	274	350	99	88
46110	QUEENSWAY W/HURONTARIO ST MISSISSAUGA	109	45	61	79	95	127	183	239	83	77
47019	POST OFFICE, 17-25 PETER ST S ORILLIA	56	35	49	61	74	101	176	207	68	62
47042	ARMOURY BLDG, PARK/PARKSIDE ST BARRIE	86	40	57	68	84	131	222	242	77	59
48002	HWY47/E OF HWY48 STOUFFVILLE	103	30	47	66	82	113	188	272	71	61
58027	51 SHUTER ST PORT HOPE	87	27	39	53	75	124	177	362	67	55
58041	FILT PLT, MARSH ST PORT HOPE	89	24	35	51	74	135	217	342	69	54
58042	CAN TIRE, QUEEN ST PORT HOPE	76	17	31	45	63	101	167	300	56	45
59006	CITY HALL, 500 GEORGE ST PETERBORO	43	20	40	58	75	102	201	253	64	52

TABLE A-39 (Cont.)

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

RUN DATE  
JUL 13, 1987

YEAR - 1986

POLLUTANT - SULPHATE IN TOTAL SUSPENDED PARTICULATE

UNIT - .1 MICROGRAMS/CU.METRE

STATION NUMBER	LOCATION	NO OF SAMPLES	PERCENTILES						ARITH MEAN	GEOM MEAN	
			10	30	50	70	90	99			
63005	HOSP, ARCHIBALD/ARTHUR STS THUNDER BAY	56	21	28	38	44	56	81	82	39	36
63022	HOSPITAL, 35 ALGOMA ST N THUNDER BAY	52	17	20	28	36	51	87	133	32	28
63040	435 JAMES ST S THUNDER BAY	49	16	23	28	35	50	92	116	32	28
71042	PUMPHOUSE, BONNEY ST SAULT STE MARIE	52	44	61	80	112	210	392	480	108	88
71049	LAND OFFICE, QUEEN ST SAULT STE MARIE	47	37	46	50	62	78	104	114	54	51
71066	FARWELL PUMPHOUSE SAULT STE MARIE	72	29	43	52	66	99	143	144	59	53
72077	MINISTRY OF HEALTH BLDG TIMMINS	46	15	24	29	36	48	125	135	34	29
75010	OPP STN NORTH BAY	45	29	37	44	51	68	147	187	50	45
77016	WATER TANK, ASH ST SUDBURY	47	31	47	63	72	99	146	157	65	58
77026	19 LISGAR ST SUDBURY	49	32	46	57	72	97	125	138	62	56
77070	PUMPHOUSE, NICKEL ST COPPER CLIFF	50	35	48	67	88	111	209	217	73	63

TABLE A-40 10-YEAR TREND FOR SO<sub>4</sub><sup>2-</sup>Annual geometric mean (ug/m<sup>3</sup>)

City	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
BELLEVILLE	5.7	6.8	9.7	9.0	6.5	6.7	7.5	6.5	5.6	-
BRAMALEA	7.3	8.5	9.2	9.0	8.2	8.8	9.0	10.8	7.7	8.8
CHATHAM	9.8	10.3	10.7	10.3	9.3	7.8	7.9	7.4	7.5	6.6
CORNWALL	9.0	8.5	11.2	10.8	9.9	8.2	10.6	9.4	-	-
ETOBIKOKE	8.6	10.8	12.9	13.8	12.1	11.3	8.8	9.3	7.7	8.7
HAMILTON	11.4	12.0	13.6	12.5	9.6	9.6	10.1	10.9	8.8	11.5
LONDON	7.0	7.7	10.2	10.7	8.1	7.9	7.3	8.7	6.9	7.5
MISSISSAUGA	8.3	9.0	8.9	10.3	10.3	9.5	10.0	10.7	7.1	7.1
NORTH BAY	6.2	7.3	7.5	8.2	6.6	6.3	6.6	7.1	6.0	4.5
NORTH YORK	7.3	8.7	11.2	11.7	9.1	8.8	8.0	7.3	7.7	7.3
PICKERING	6.3	8.2	9.5	7.6	7.2	6.6	5.8	5.8	5.7	5.7
SCARBORO	7.5	9.0	11.6	11.7	9.1	8.6	8.4	8.2	7.0	7.7
SUDBURY	7.5	6.6	8.4	10.6	9.8	7.3	8.5	7.4	5.2	5.8
THUNDER BAY	4.4	4.4	5.4	6.5	7.8	6.4	4.0	4.3	3.5	3.6
TORONTO	8.8	8.9	13.1	12.9	10.1	9.5	8.7	8.0	7.3	8.0
WINDSOR	11.2	12.3	12.7	12.6	12.0	9.9	8.7	8.6	8.5	10.5

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